The peptide compounds of interest in the present invention are breakthrough drugs that directly bind to Ras and inhibit its interaction with SOS, whereby they suppress the activation of Ras and inhibit the proliferation of cancer cells having Ras mutation.

[Solution to Problem]

[0014]

As a result of dedicated research for seeking cyclic peptide compounds having Ras inhibitory activity, the present inventors found cyclic peptide compounds that interact with Ras. The inventors also found that those cyclic peptide compounds inhibit the binding between Ras and SOS. In addition, the inventors found specific non-natural amino acids contained in the cyclic peptide compounds and methods for production thereof. The inventors found that the cyclic peptide compounds have, as a pharmacological effect, a proliferation inhibitory effect on tumor cells having Ras mutation.

[0014a]

In one aspect, the present disclosure refers to a cyclic peptide compound or salt thereof, or solvate thereof, wherein the compound is selected from the group consisting of:

(55) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(120) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(4-chlorobenzyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(127) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-cyclobutyl-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(128) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(176) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(182) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(201) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(279) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(302) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(363) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,12,16,19,33,36-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(370) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(388) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-35-(4-fluorobenzyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(415) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(422) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(506) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(515) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(589) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(721) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(835) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclobutoxymethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(836) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(926) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(965) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(973) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(974) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1070) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1073) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(piperidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1116) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1137) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1143) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1158) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1162) (3S,9S,18S,21S,25S,28S,34S,36R)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1170) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1201) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1215) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1217) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1236) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1250) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1259) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1299) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1308) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1309) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1336) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18,35-dicyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1342) (3S,9S,18S,21S,25S,28S,34S)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1355) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1368) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1370) (3S,9S,18S,21S,25S,28S,34S,36R)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1659) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide,

(1679) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1756) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1761) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-9-(p-tolylmethyl)-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1772) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1777) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1779) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide,

(1787) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-

5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1818) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,

(1840) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, and

(1850) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(piperidine-1-carbonyl)-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone.

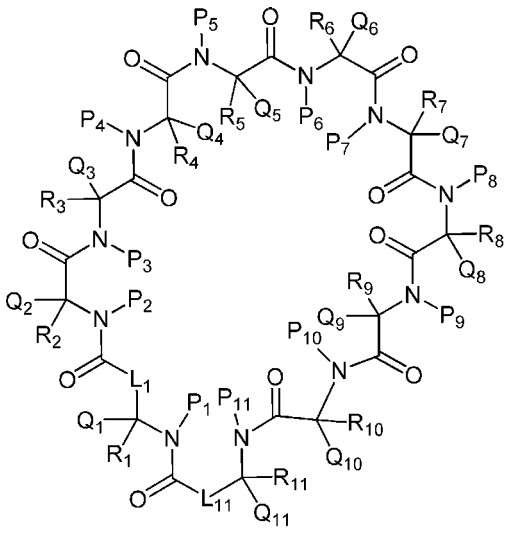
[0014b]

In another aspect, the present disclosure refers to a pharmaceutical composition comprising the cyclic peptide compound or salt thereof, or solvate thereof as described herein.

[0015]

The present invention encompasses the following in one non-limiting specific embodiment:

[1] A cyclic peptide compound represented by formula (1) below or a salt thereof, or a solvate thereof:



(1)

wherein,

L_1 is a single bond, or $-CHM_1-$, $-(CH_2)_nS(CH_2)_m-$, $-(CH_2)_nS(O)(CH_2)_m-$, or $-(CH_2)_nS(O)_2(CH_2)_m-$, wherein n and m are each independently 1 or 2,

R_1 is hydrogen, C_1-C_6 alkyl, C_2-C_6 alkynyl, C_1-C_6 alkoxyC_1-C_6 alkyl, C_3-C_8 cycloalkyl, C_3-C_8 cycloalkylC_1-C_6 alkyl, or C_3-C_8 cycloalkoxyC_1-C_6 alkyl, each of which is optionally substituted with one or more groups independently selected from the group consisting of halogen, hydroxy, aminocarbonyl (wherein the amino is $-NH_2$, mono-C_1-C_6 alkylamino, di-C_1-C_6 alkylamino, or 4- to 8-membered cyclic amino), and C_1-C_6 alkylsulfonyl, or

[CLAIMS]
[Claim 1]

A cyclic peptide compound or salt thereof, or solvate thereof, wherein the compound is selected from the group consisting of:
(55) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(120) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(4-chlorobenzyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(127) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-cyclobutyl-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(128) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(176) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(182) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(201) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(279) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-

undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(302) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(363) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,12,16,19,33,36-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(370) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(388) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-35-(4-fluorobenzyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(415) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(422) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(506) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(515) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-

i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(589) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(721) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(835) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclobutoxymethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(836) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(926) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(965) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(973) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(974) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-

spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1070) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1073) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(piperidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1116) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1137) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1143) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1158) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1162) (3S,9S,18S,21S,25S,28S,34S,36R)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1170) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-

i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1201) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1215) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1217) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1236) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1250) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1259) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1299) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1308) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-

2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1309) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1336) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18,35-dicyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1342) (3S,9S,18S,21S,25S,28S,34S)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1355) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1368) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1370) (3S,9S,18S,21S,25S,28S,34S,36R)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1659) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide,
(1679) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1756) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1761) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-9-(p-tolylmethyl)-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1772) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1777) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1779) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide,
(1787) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1818) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1840) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, and
(1850) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-

methylpropyl]-25-(piperidine-1-carbonyl)-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone.

[Claim 2]

The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is

(279) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(363) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,12,16,19,33,36-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(965) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1170) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1201) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1217) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-N,N,5,6,12,16,19,33-octamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,

(1659) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-

spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide,
(1756) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-35-(4-methylbenzyl)-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide,
(1777) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-N,N,5,6,12,16,19,33,36-nonamethyl-4,7,10,13,17,20,23,28,31,34,37-undecaoxotetratriacontahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentane]-15-carboxamide, or
(1779) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-N,N,7,10,13,16,22,26,29-nonamethyl-18-[(1S)-1-methylpropyl]-2,5,8,11,14,17,20,23,27,30,33-undecaoxo-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-25-carboxamide.

[Claim 3]
The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is
(120) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(4-chlorobenzyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(127) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-cyclobutyl-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(182) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(370) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(388) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-35-(4-fluorobenzyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(415) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(835) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclobutoxymethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1073) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(piperidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1772) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1787) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(piperidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, or
(1850) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(piperidine-1-carbonyl)-9-(p-tolylmethyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone.

[Claim 4]

The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is
(201) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-

heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(589) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(836) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1162) (3S,9S,18S,21S,25S,28S,34S,36R)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1342) (3S,9S,18S,21S,25S,28S,34S)-9-(cyclohexylmethyl)-28-cyclopentyl-3-[2-[3,5-difluoro-4-(trifluoromethyl)phenyl]ethyl]-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1370) (3S,9S,18S,21S,25S,28S,34S,36R)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-36-ethoxy-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1679) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1761) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-9-(p-tolylmethyl)-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone,
(1818) (3S,9S,18S,21S,25S,28S,34S)-3-[2-[3-chloro-4-(trifluoromethyl)phenyl]ethyl]-9-(cyclohexylmethyl)-28-cyclopentyl-21-isobutyl-7,10,13,16,22,26,29-heptamethyl-18-[(1S)-1-methylpropyl]-25-(pyrrolidine-1-carbonyl)spiro[1,4,7,10,13,16,19,22,26,29,32-undecazabicyclo[32.3.0]heptatriacontane-31,1'-cyclopentane]-2,5,8,11,14,17,20,23,27,30,33-undecone, or

(1840) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-methylbenzyl)-15-(pyrrolidine-1-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone.

[Claim 5]

The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is

(55) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(128) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(506) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(515) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1070) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1143) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, or

(1158) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-15-(azetidine-1-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-

cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone.

[Claim 6]

The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is

(302) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(926) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(974) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1116) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1137) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1250) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(1259) (5S,8S,11S,15S,18S,23aS,25R,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-25-ethoxy-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-

i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1308) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-35-(cyclohexylmethyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1309) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1336) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18,35-dicyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, or
(1368) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)-15-(morpholine-4-carbonyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone.

[Claim 7]

The cyclic peptide compound or salt thereof, or solvate thereof according to claim 1, wherein the compound is
(176) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(422) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(4-(trifluoromethyl)benzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(721) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18,35-dicyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,

(973) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-35-(cyclohexylmethyl)-18-cyclopentyl-11-isobutyl-5,6,12,16,19,33,36-heptamethyldocosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1215) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1236) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-36-ethyl-11-isobutyl-5,6,12,16,19,33-hexamethyl-35-(4-methylbenzyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone,
(1299) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-29-(3-chloro-4-(trifluoromethyl)phenethyl)-18-cyclopentyl-11-isobutyl-5,12,16,19,33,36-hexamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone, or
(1355) (5S,8S,11S,15S,18S,23aS,29S,35S,37aS)-15-(3-oxa-8-azabicyclo[3.2.1]octane-8-carbonyl)-8-((S)-sec-butyl)-18-cyclopentyl-29-(3,5-difluoro-4-(trifluoromethyl)phenethyl)-11-isobutyl-5,6,12,16,19,33,36-heptamethyl-35-(propoxymethyl)docosahydro-2H,4H-spiro[azeto[2,1-u]pyrrolo[2,1-i][1,4,7,10,13,16,19,22,25,28,31]undecaazacyclotetratriacontine-21,1'-cyclopentan]-4,7,10,13,17,20,23,28,31,34,37(14H,22H)-undecaone.

[Claim 8]

A pharmaceutical composition comprising the cyclic peptide compound or salt thereof, or solvate thereof according to any one of claims 1 to 7.