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ABSTRACT

The present invention relates to rat cerebellum-derived and human brain-derived G protein coupled
5 receptor proteins or salts thereof, their partial
peptides, amides, esters or salts thereof, ligands to
the same, a method/kit for screening compounds that
alter the binding property between the ligands and the
G protein coupled receptor proteins, compounds obtained
10 by the screening or salts thereof, and antibodies to
the G protein coupled receptor proteins.

The rat cerebellum-derived and human brain-derived
G protein coupled receptor proteins and the like are
useful: (1) for determination of a ligand to the
15 receptor protein of the present invention (ligand
peptide of the present invention) (agonist), (2) as an
agent for the prevention and/or treatment of diseases
associated with dysfunction of the G protein coupled
receptor protein of the present invention, (3) as a
20 genetic diagnostic agent, (4) for quantification of a
ligand to the G protein coupled receptor protein of the
present invention, (5) for screening of a compound
(agonist, antagonist, etc.) that alters the binding
property between the G protein coupled receptor protein
25 of the present invention and a ligand (ligand peptide
of the present invention), (6) as a agent for the
prevention and/or treatment of various diseases,
comprising a compound (agonist, antagonist, etc.) that
alters the binding property between the G protein
30 coupled receptor protein of the present invention and a
ligand (ligand peptide of the present invention), (7)
for quantification of the receptor protein, its partial
peptide or salts of the present invention, (8) for
neutralization by antibodies to the receptor protein,
35 its partial peptide or salts of the present invention



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and (9) for preparation of a non-human animal bearing the DNA encoding the G protein coupled receptor protein of the present invention.