

Abstract

A novel compound which has an excellent aurora A-selective inhibitory action and is useful as an orally administrable anticancer agent is provided. Also, a novel agent for potentiation of anti-tumor effect of microtubule agonists, which include a taxane anticancer agent, and a combination therapy are provided. A piperidine compound represented by a general formula (I) or a salt thereof:

wherein, R_1 represents a carboxyl group, $-C(=O)NR_5R_6$, or an oxadiazolyl group optionally having a C_1 - C_6 alkyl group or a trifluoromethyl group as a substituent;

R_2 represents a halogen atom or a C_1 - C_6 alkoxy group;

R_3 represents a phenyl group optionally having 1 to 3 same or different group(s) selected from a halogen atom, a C_1 - C_6 alkyl group, a C_1 - C_6 alkoxy group, and a trifluoromethyl group as a substituent;

R_4 represents a hydrogen atom or a C_1 - C_6 alkyl group; and

R_5 and R_6 are the same or different and each represent a hydrogen atom, a C_1 - C_6 alkyl group, or a C_3 - C_6 cycloalkyl group, or R_5 and R_6 optionally form a 3 to 6-membered nitrogen-containing saturated heterocyclic group together with a nitrogen atom to which R_5 and R_6 are bound, are provided.

