

Abstract

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[Problem] Provided is a compound having a positive allosteric modulating activity
5 (PAM activity) on an $\alpha 7$ nicotinic acetylcholine receptor ($\alpha 7$ nACh receptor).

[Means for Solution] The present inventors have studied on a PAM activity on an $\alpha 7$
nACh receptor, and they have found that a tetrahydrooxepinopyridine compound has a
PAM activity on an $\alpha 7$ nACh receptor, thereby completing the present invention. The
10 tetrahydrooxepinopyridine compound of the present invention has a PAM activity on an $\alpha 7$
nACh receptor and can be expected as an agent for preventing or treating dementia,
cognitive impairment, schizophrenia, Alzheimer's disease, CIAS, negative symptoms of
schizophrenia, inflammatory diseases, or pain.

[Selected Figure] Nil