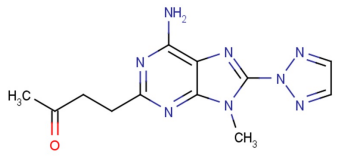
Data Sheet (Cat.No.T14015)

TargetMol
A DRUG SCREENING EXPERT

ST4206

Chemical Properties



CAS No.:	1246018-36-9
Formula:	C12H14N8O
Molecular Weight:	286.29
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	ST4206 is an antagonist of adenosine A2A. For adenosine A2A receptor and adenosine A1 receptor, the Kis values are 12 nM and 197 nM , respectively.
Targets(IC_{50})	adenosine A2A receptor: (ki) 12 nM adenosine A1 receptor: 197 nM (ki)
In vitro	ST4206 inhibits agonist-induced cAMP accumulation (IC50: 990 nM)[1].
In vivo	ST4206 (10, 20, and 40 mg/kg, p.o.) antagonizes haloperidol-induced catalepsy, and increases motor activity in a dose dependent manner in mice. ST4206 (20 and 40 mg/kg) significantly increases the number of contralateral turns induced by l-DOPA in rats[1]. ST4206 is orally active at concentrations of 10, 20, and 40 mg/kg in haloperidol-induced catalepsy in mice[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.493 mL	17.465 mL	34.93 mL
5 mM	0.699 mL	3.493 mL	6.986 mL
10 mM	0.349 mL	1.746 mL	3.493 mL
50 mM	0.07 mL	0.349 mL	0.699 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Stasi MA, et al. Animal models of Parkinson's disease: Effects of two adenosine A2A receptor antagonists ST4206 and ST3932, metabolites of 2-n-Butyl-9-methyl-8-[1,2,3]triazol-2-yl-9H-purin-6-ylamine (ST1535).
2. de Lera Ruiz M, et al. Adenosine A2A receptor as a drug discovery target. J Med Chem. 2014 May 8;57(9):3623-50.

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