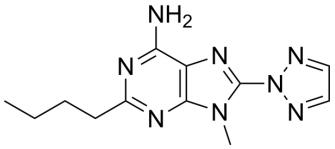
ST 1535

Cat. No.:	HY-105003
CAS No.:	496955-42-1
Molecular Formula:	$C_{12}H_{16}N_8$
Molecular Weight:	272.31
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ST 1535 is a potent and orally active A2A adenosine receptor antagonist. ST 1535 shows antiparkinsonian activity and antitremorigenic effects. ST 1535 has the potential for the research of Parkinson's disease[1][2].
IC_{50} & Target	A2a adenosine receptor
In Vitro	ST 1535 (0-1000 nM) inhibits forskolin (HY-15371)-induced cAMP formation in CHO cells with IC_{50}s of 510, 353, 950, >1000 nM for hA1, hA2A, hA2B, hA3, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	ST 1535 (0, 5, 10 mg/kg; p.o.) antagonizes catalepsy induced by i.c.v. administration with the A2A adenosine agonist CGS 21680 (HY-13201)[1]. ST 1535 (10, 20, 40 mg/kg; i.p.) increases the number of contralateral turns induced by l-DOPA (HY-N0304) in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	5-6 weeks CD1 male mice[1]
Dosage:	0, 5, 10 mg/kg
Administration:	P.o.
Result:	Antagonized catalepsy induced by i.c.v. administration with the A2A adenosine agonist CGS 21680.

Animal Model:	Male Sprague Dawley rats[2]
Dosage:	10, 20, 40 mg/kg
Administration:	I.p.
Result:	Significantly increased the number of contralateral turns induced by l-DOPA (3 mg/kg i.p.) at 20 and 40 mg/kg.

REFERENCES

[1]. Stasi MA, et al. ST 1535: a preferential A2A adenosine receptor antagonist. Int J Neuropsychopharmacol. 2006 Oct;9(5):575-84.

[2]. Tronci E, et al. Characterization of the antiparkinsonian effects of the new adenosine A2A receptor antagonist ST1535: acute and subchronic studies in rats. Eur J Pharmacol. 2007 Jul 2;566(1-3):94-102.

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