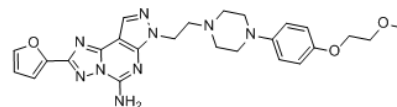


Product Name : Preladenant
Cat. No. : PC-42729
CAS No. : 377727-87-2
Molecular Formula : C₂₅H₂₉N₉O₃
Molecular Weight : 503.5563
Target : Adenosine Receptor
Solubility : DMSO



Biological Activity

Preladenant (SCH420814) is a potent and highly selective **adenosine A2A receptor** competitive antagonist with K_i of 1.1 nM.

Preladenant (SCH420814) has >1000-fold selectivity over all other adenosine receptors.

Preladenant (SCH420814) attenuates hypolocomotion induced by the A2AR agonist CGS-21680.

Preladenant (SCH420814) potentiates L-Dopa -induced contralateral rotations after 6-hydroxydopamine lesions in the medial forebrain bundle in rats (0.1-1 mg/kg); orally active.

References

Neustadt BR, et al. *Bioorg Med Chem Lett*. 2009 Feb 1;19(3):967-71.

Hodgson RA, et al. *J Pharmacol Exp Ther*. 2009 Jul;330(1):294-303.

Hodgson RA, et al. *Exp Neurol*. 2010 Oct;225(2):384-90.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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