Data Sheet (Cat.No.T15791)



LUF6000

Chemical Propert		
CAS No. :	890087-21-5	ſ
Formula:	C22H20Cl2N4	
Molecular Weight:	411.33	N=
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	

Biological Description

Description	LUF6000 is an allosteric modulator of the human A3 adenosine receptor (AR).	
Targets(IC50)	Others	
In vitro	LUF6000 converted a nucleoside A3 AR antagonist MRS542, but not a non-nucleoside antagonist MRS1220, into an agonist. LUF6000 exerted an Emax-enhancing effect at a concentration of 0.1 microM or higher and was shown to increase the Emax of Cl-IB- MECA and other low-efficacy agonists to a larger extent than that of the high-efficacy agonist NECA. A3 adenosine receptor LUF6000 was found to be an allosteric enhancer of Emax of structurally diverse agonists at the A3 AR, being more effective for low-Emax agonists than for high-Emax agonists.	

Solubility Information

Solubility	DMSO: 14.29 mg/mL (34.74 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	$\mathbf{O}_{\mathbf{A}}$

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4311 mL	12.1557 mL	24.3114 mL
5 mM	0.4862 mL	2.4311 mL	4.8623 mL
10 mM	0.2431 mL	1.2156 mL	2.4311 mL
50 mM	0.0486 mL	0.2431 mL	0.4862 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Gao ZG, Verzijl D, Zweemer A et al. Functionally biased modulation of A(3) adenosine receptor agonist efficacy and potency by imidazoquinolinamine allosteric enhancers. Biochem Pharmacol. 2011 Sep 15;82(6):658-68. doi:

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