LUF6096

Cat. No.:	HY-10915		
CAS No.:	1116652-18	-6	
Molecular Formula:	C ₂₂ H ₂₁ Cl ₂ N ₃ C)	
Molecular Weight:	414.33		
Target:	Adenosine F	Receptor	
Pathway:	GPCR/G Pro	tein	
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4135 mL	12.0677 mL	24.1354 mL
		5 mM	0.4827 mL	2.4135 mL	4.8271 mL
		10 mM	0.2414 mL	1.2068 mL	2.4135 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		

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Description	LUF6096, a potent allosteric enhancer of the adenosine A3 receptor, is able to allosterically enhance agonist binding. LUF6096 shows low orthosteric affinity for any of the adenosine receptors. LUF6096 shows protective effects in myocardial ischemia/reperfusion injury ^{[1][2]} .
IC ₅₀ & Target	adenosine A3 receptor ^[1]
In Vitro	LUF6096 (10 μM; 30-120 min) decreases the dissociation rate of ¹²⁵ I-AB-MECA from the A ₃ receptor by 2.5 times in CHO cell membranes ^[1] . LUF6096 (10 μM; pretreated for 15 min) significantly and dramatically enhances the intrinsic activity of Cl-IB-MECA for the inhibition of the forskolin-stimulated cAMP production in CHO cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LUF6096 (twice i.v. bolus for 0.5 mg/kg or single i.v. bolus for 1 mg/kg) protects against myocardial ischemia/reperfusion

Product Data Sheet

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injury in dogs^[1]. MCE has not independe	ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Adult mongrel dogs (15-25 kg) were subjected left anterior descending (LAD) coronary artery occlusion and reperfusion ^[1]
Dosage:	Twice i.v. bolus for 0.5 mg/kg or single i.v. bolus for 1 mg/kg
Administration:	I.v. bolus
Result:	Produced a marked reduction in infarct size (\250% reduction) compared with vehicle- treated dogs.

REFERENCES

[1]. Heitman LH, et, al. A series of 2,4-disubstituted quinolines as a new class of allosteric enhancers of the adenosine A3 receptor. J Med Chem. 2009 Feb 26;52(4):926-31.

[2]. Du L, et, al. Protection from myocardial ischemia/reperfusion injury by a positive allosteric modulator of the A₃ adenosine receptor. J Pharmacol Exp Ther. 2012 Jan;340(1):210-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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