

Product Data Sheet

Product Name: LUF6096

Cat. No.: GC61872

Chemical Properties

Cas. No. 1116652-18-6

SMILES O=C(NC1=CC(NC2=CC=C(Cl)C(Cl)=C2)=NC3=CC=CC=C31)C4CCCCC4

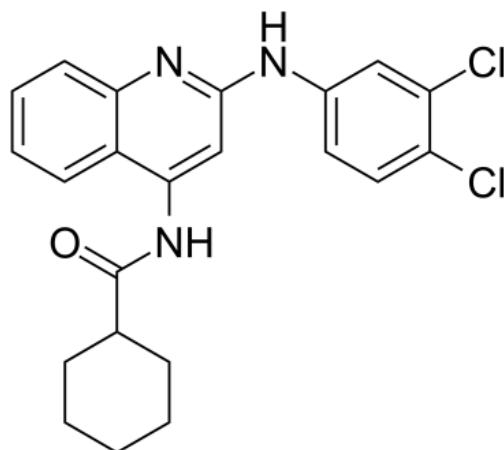
Formula C22H21Cl2N3O M.Wt 414.33

Solubility DMSO : 20 mg/mL (48.27 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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LUF6096 (10 μ M; 30-120 min) decreases the dissociation rate of ¹²⁵I-AB-MECA from the A₃ receptor by 2.5 times in CHO cell membranes[1]. LUF6096 (10 μ M; pretreated for 15 min) significantly and dramatically enhances the intrinsic activity of CI-IB-MECA for the inhibition of the forskolin-stimulated cAMP production in CHO cells[1].

LUF6096 (twice i.v. bolus for 0.5 mg/kg or single i.v. bolus for 1 mg/kg) protects against myocardial ischemia/reperfusion injury in dogs[1].

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.

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