Xanthine amine congener hydrochloride

Cat. No.: HY-101139A

CAS No.: 1783977-95-6

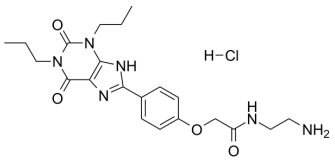
Molecular Formula: $C_{21}H_{29}ClN_6O_4$

Molecular Weight: 464.95

Target: Adenosine Receptor

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (44.80 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1508 mL	10.7538 mL	21.5077 mL
5 mM	0.4302 mL	2.1508 mL	4.3015 mL
10 mM	0.2151 mL	1.0754 mL	2.1508 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Xanthine amine congener (XAC) hydrochloride is a non-selective adenosine receptor antagonist. Xanthine amine congener hydrochloride induces convulsions in mice[1].

REFERENCES

[1]. Ukena D, et al. Functionalized congeners of 1,3-dipropyl-8-phenylxanthine: potent antagonists for adenosine receptors that modulate membrane adenylate cyclase in pheochromocytoma cells, platelets and fat cells. Life Sci. 1986 Mar 3;38(9):797-807.

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

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