M1069 free base

Cat. No.: HY-148088A

CAS No.: 2459881-03-7

Molecular Formula: $C_{21}H_{26}N_4O_4S$

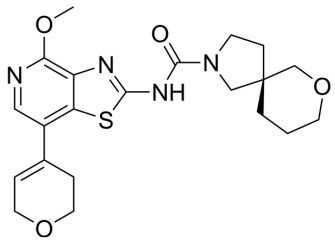
Molecular Weight: 430.52

Target: Adenosine Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (232.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3228 mL	11.6139 mL	23.2277 mL
	5 mM	0.4646 mL	2.3228 mL	4.6455 mL
	10 mM	0.2323 mL	1.1614 mL	2.3228 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: 2.5 mg/mL (5.81 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.81 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.81 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

M1069 (free base) is a selective and orall active, dual A2A/A2B adenosine receptor antagonist with a selectivity of >100 fold against the A1 and A3 receptors. M1069 (free base) counteracts immune-suppressive mechanisms of adenosine, and exhibits anti-tumor activity[1][2][3].

REFERENCES

[1]. Rinat Zaynagetdinov, et al. Abstract 3499: M1069 as dual A2A/A2B adenosine receptor antagonist counteracts immune-suppressive mechanisms of adenosine and reduces tumor growth in vivo. Cancer Res (2022) 82 (12_Supplement):3499.

[2]. Tanzer Eva-Maria, et al. Preparation of thiazolopyridine derivatives as adenosine receptor antagonists: World Intellectual Property Organization, WO2020152132[P]. 2020-07-30.

[3]. Lillian L Siu, et al. Abstract CT240: A first-in-human study of the dual A2A/A2B adenosine receptor antagonist M1069 in patients with advanced solid tumors. Cancer Res (2022) 82 (12_Supplement):CT240.

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