Z433927330

Cat. No.: HY-126074

CAS No.: 1005883-72-6

Molecular Formula: $C_{20}H_{20}N_4O_3$

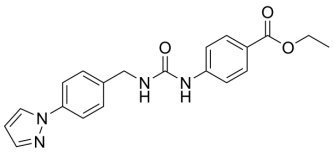
Molecular Weight: 364.4

Target: Aquaporin

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 280 mg/mL (768.39 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.7442 mL	13.7212 mL	27.4424 mL
5 mM	0.5488 mL	2.7442 mL	5.4885 mL
10 mM	0.2744 mL	1.3721 mL	2.7442 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: ≥ 2.33 mg/mL (6.39 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.33 mg/mL (6.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Z433927330 is a potent and selective inhibitor of Aquaporin-7 (AQP7), less potently inhibits AQP3 and AQPs9, with IC_{50}s of ~0.2 μM, ~0.7 μM and ~1.1 μM for mAQP7, mAQP3 and mAQP9, respectively[1].

IC_{50} & Target

IC50: ~0.2 μM (mAQP7), ~0.7 μM (mAQP3), ~1.1 μM (mAQP9)[1]

In Vitro

Z433927330 inhibits glycerol permeability, with an IC_{50} of ~0.6 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Z433927330, et al. Identification and characterization of potent and selective aquaporin-3 and aquaporin-7 inhibitors. J Biol Chem. 2019 May 3;294(18):7377-7387.

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