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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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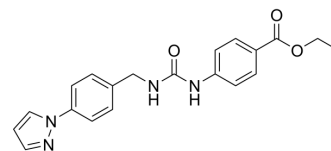
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Z433927330

Cat. No.:	HY-126074
CAS No.:	1005883-72-6
Molecular Formula:	C ₂₀ H ₂₀ N ₄ O 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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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 AQP9, with IC₅₀s of ~0.2 μM, ~0.7 μM and ~1.1 μM for mAQP7, mAQP3 and mAQP9, respectively^[1].

IC₅₀ & Target

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

In Vitro

Z433927330 inhibits glycerol permeability, with an IC₅₀ 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.

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

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