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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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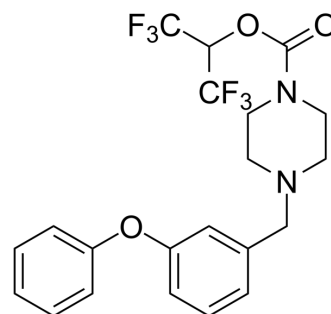
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JW 642

Cat. No.: HY-12332
CAS No.: 1416133-89-5
Molecular Formula: C₂₁H₂₀F₆N₂O₃
Molecular Weight: 462.39
Target: MAGL
Pathway: Metabolic Enzyme/Protease
Storage: 4°C, stored under nitrogen
 * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (216.27 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1627 mL	10.8134 mL	21.6268 mL
	5 mM		0.4325 mL	2.1627 mL	4.3254 mL
	10 mM		0.2163 mL	1.0813 mL	2.1627 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 (5.41 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

JW 642 is a potent inhibitor of monoacylglycerol lipase (MAGL) that displays IC₅₀ values of 7.6, 14, and 3.7 nM for inhibition of MAGL in mouse, rat, and human brain membranes, respectively. IC₅₀ value: 7.6/14/3.7 nM(mouse/rat/human MAGL)
 [1]Target: MAGL inhibitor JW 642 is selective for MAGL, requiring much higher concentrations to effectively inhibit fatty acid amide hydrolase activity (IC₅₀s = 31, 14, and 20.6 μM for mouse, rat, and human brain membranes, respectively).

REFERENCES

[1]. Chang JW, et al. Highly selective inhibitors of monoacylglycerol lipase bearing a reactive group that is bioisosteric with endocannabinoid substrates. Chem Biol. 2012

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

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