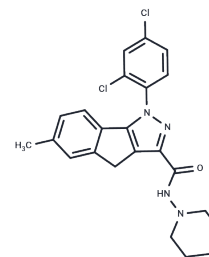


GP 1a

Chemical Properties

CAS No. :	511532-96-0
Formula:	C ₂₃ H ₂₂ Cl ₂ N ₄ O
Molecular Weight:	441.35
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	GP 1a is a potent agonist of cannabinoid receptor 2 (CB2) (EC ₅₀ =7.1), as shown in cAMP, GTPγS and β-arrestin recruitment assays. GP 1a is approximately 30-fold more selective for CB2 receptors than CB1 receptors and increases P-ERK1/2 expression in HL-60 cells in vitro. GP 1a is beneficial for skin wound healing. GP 1a inhibits inflammation and fibrogenesis while promoting epithelial re-formation.
Targets(IC50)	ERK,Cannabinoid Receptor

Solubility Information

Solubility	Ethanol: 90 mg/mL (203.92 mM),Sonication is recommended. DMSO: 90 mg/mL (203.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2658 mL	11.3289 mL	22.6578 mL
5 mM	0.4532 mL	2.2658 mL	4.5316 mL
10 mM	0.2266 mL	1.1329 mL	2.2658 mL
50 mM	0.0453 mL	0.2266 mL	0.4532 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Murineddu G, et al. Tricyclic pyrazoles. 4. Synthesis and biological evaluation of analogues of the robust and selective CB2 cannabinoid ligand 1-(2',4'-dichlorophenyl)-6-methyl-N-piperidin-1-yl-1,4-dihydroindeno[1,2-c]pyrazole-3-carboxamide. J Med Chem. 2006 ; 49(25):7502-7512.

Tschöp J, et al. The cannabinoid receptor 2 is critical for the host response to sepsis. J Immunol. 2009 ; 183(1):499-505.

Soethoudt M, et al. Cannabinoid CB2 receptor ligand profiling reveals biased signalling and off-target activity. Nat Commun. 2017 ; 8:13958.

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