



Product Information

JD-5037

Cat. No.: X23-12-YM1301

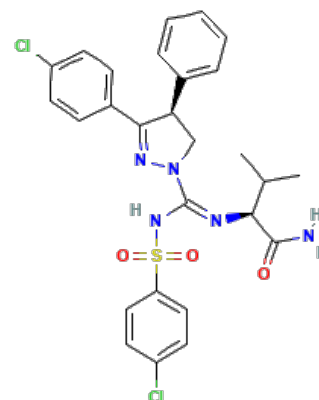
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1392116-14-1

Compound CID: 66553204

Synonym: 1392116-14-1; JD5037; JD 5037

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	JD-5037, soluble in DMSO and ethanol and insoluble in water, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets CB1.
Molecular Weight	572.51
Molecular Formula	C ₂₇ H ₂₇ Cl ₂ N ₅ O ₃ S
Targets	CB1: 1.5 nM
IUPAC Name	(2S)-2-[[[(4S)-5-(4-Chlorophenyl)-4-phenyl-3,4-dihydropyrazol-2-yl]-[(4-chlorophenyl)sulfonylamino]methylidene]amino]-3-methylbutanamide
InChI	InChI=1S/C27H27Cl2N5O3S/c1-17(2)24(26(30)35)31-27(33-38(36,37)22-14-12-21(29)13-15-22)34-16-23(18-6-4-3-5-7-18)25(32-34)19-8-10-20(28)11-9-19/h3-15,17,23-24H,16H2,1-2H3,(H2,30,35)(H,31,33)/t23-,24+/m1/s1
InChI Key	GTCSIQFTNPTSLO-RPWUZVMVSA-N
Canonical SMILES	CC(C)C(C(=O)N)N=C(NS(=O)(=O)C1=CC=C(C=C1)Cl)N2CC(C(=N2)C3=CC=C(C=C3)Cl)C4=CC=CC=C4
Isomeric SMILES	CC(C)[C@@H](C(=O)N)N=C(NS(=O)(=O)C1=CC=C(C=C1)Cl)N2C[C@H](C(=N2)C3=CC=C(C=C3)Cl)C4=CC=CC=C4
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 90 mg/mL (157.19 mM); Water: insoluble; Ethanol: 2 mg/mL (3.49 mM)
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

JD-5037 can be used to research and develop therapeutic strategies for certain diseases that involve excessive activation of GPCR-G protein signaling pathways.

Storage

Store at -20°C, and keep desiccated.
