

NGB 2904

Chemical Properties

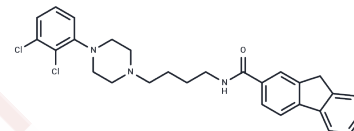
CAS No. : 189060-98-8

Formula: C₂₈H₂₉Cl₂N₃O

Molecular Weight: 494.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	NGB 2904 is a potent and selective antagonist of dopamine D3 receptor (K _i values are 1.4, 217, 223, 642, > 5000, > 10000 and > 10000 nM for D3, D2, 5-HT ₂ , α ₁ , D4, D1 and D5 receptors respectively). NGB2904 potently antagonizes mitogenesis stimulated by quinpirole (IC ₅₀ = 6.8 nM).
Targets(IC50)	5-HT Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 16.25 mg/mL (32.86 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	2.0224 mL	10.112 mL	20.2241 mL
5 mM	0.4045 mL	2.0224 mL	4.0448 mL
10 mM	0.2022 mL	1.0112 mL	2.0224 mL
50 mM	0.0404 mL	0.2022 mL	0.4045 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

Hussein N, Amawi H, Karthikeyan C, Hall FS, Mittal R, Trivedi P, Ashby CR Jr, Tiwari AK. The dopamine D(3) receptor antagonists PG01037, NGB2904, SB277011A, and U99194 reverse ABCG2 transporter-mediated drug resistance in cancer cell lines. Cancer Lett. 2017 Mar 18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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