

Indophagolin

Chemical Properties

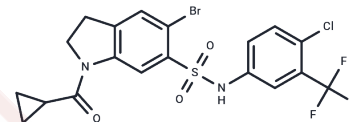
CAS No. : 1207660-00-1

Formula: C₁₉H₁₅BrClF₃N₂O₃S

Molecular Weight: 523.75

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	Indophagolin is a potent, indoline-containing autophagy inhibitor with an IC ₅₀ of 140 nM, and it antagonizes the purinergic receptor P2X ₄ as well as P2X ₁ and P2X ₃ with IC ₅₀ s of 2.71, 2.40, and 3.49 μM, respectively.
Targets(IC ₅₀)	5-HT Receptor, Autophagy, P2X Receptor
In vitro	Indophagolin (10 μM) inhibits autophagosome formation in MCF7 cells and antagonizes Gq-protein-coupled P2Y ₄ , P2Y ₆ , and P2Y ₁₁ receptors (IC ₅₀ s = 3.4~15.4 μM). It also exhibits a strong antagonistic effect on the serotonin receptor 5-HT ₆ (IC ₅₀ =1.0 μM) and a moderate effect on the 5-HT _{1B} , 5-HT _{2B} , 5-HT _{4e} , and 5-HT ₇ receptors.

Solubility Information

Solubility	DMSO: 25 mg/mL (47.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (3.82 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9093 mL	9.5465 mL	19.0931 mL
5 mM	0.3819 mL	1.9093 mL	3.8186 mL
10 mM	0.1909 mL	0.9547 mL	1.9093 mL
50 mM	0.0382 mL	0.1909 mL	0.3819 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

Carnero Corrales MA, et al. Thermal proteome profiling identifies the membrane-bound purinergic receptor P2X4 as a target of the autophagy inhibitor indophagolin [published online ahead of print, 2021 Mar 9]. Cell Chem Biol. 2021;S2451-9456(21)00102-1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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