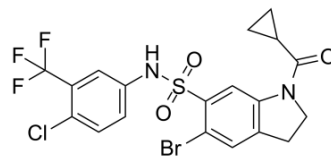


Indophagolin

Cat. No.:	HY-134807
CAS No.:	1207660-00-1
Molecular Formula:	C ₁₉ H ₁₅ BrClF ₃ N ₂ O ₃ S
Molecular Weight:	523.75
Target:	P2X Receptor; 5-HT Receptor; Autophagy
Pathway:	Membrane Transporter/Ion Channel; GPCR/G Protein; Neuronal Signaling; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (477.33 mM; Need ultrasonic and warming)				
		Solvent	Mass		
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		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	
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: 2.08 mg/mL (3.97 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.97 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Indophagolin is a potent, indoline-containing autophagy inhibitor (IC ₅₀ =140 nM). Indophagolin 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. Indophagolin also antagonizes the G _q -protein-coupled P2Y ₄ , P2Y ₆ , and P2Y ₁₁ receptors (IC ₅₀ s =3.4~15.4 μM). Indophagolin has a strong antagonistic effect on serotonin receptor 5-HT ₆ (IC ₅₀ =1.0 μM) and a moderate effect on receptors 5-HT _{1B} , 5-HT _{2B} , 5-HT _{4e} , and 5-HT ₇ ^[1] .			
IC₅₀ & Target	P2X1 2.4 μM (IC ₅₀)	P2X4 2.71 μM (IC ₅₀)	P2Y11 3.4 μM (IC ₅₀)	P2X3 3.49 μM (IC ₅₀)
	P2Y4 4.89 μM (IC ₅₀)	P2Y6 15.4 μM (IC ₅₀)	Autophagy 140 nM (IC ₅₀)	5-HT ₆ Receptor 1.0 μM (IC ₅₀)

In Vitro

Indophagolin (10 μ M) inhibits autophagosome formation in MCF7 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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

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