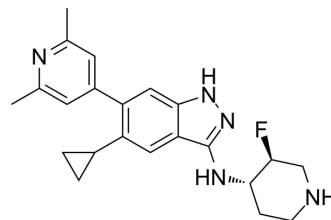


TLR7/8 antagonist 2

Cat. No.:	HY-144619
CAS No.:	2769085-03-0
Molecular Formula:	C ₂₂ H ₂₆ FN ₅
Molecular Weight:	379.47
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (263.53 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6353 mL	13.1763 mL	26.3525 mL
				5 mM	0.5271 mL	2.6353 mL	5.2705 mL
				10 mM	0.2635 mL	1.3176 mL	2.6353 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: 2.5 mg/mL (6.59 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.59 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.59 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	TLR7/8 antagonist 2 (Compound 15) is a potent and orally active agonist of TLR7/8 with IC ₅₀ s of 4.9 and 0.6 nM, respectively. Inappropriate activation of TLR7 and TLR8 is linked to several autoimmune diseases, such as lupus erythematosus. TLR7/8 antagonist 2 has the potential for the research of autoimmune diseases ^[1] .
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REFERENCES

[1]. Claudia Betschart, et al. Structure-Based Optimization of a Fragment-like TLR8 Binding Screening Hit to an In Vivo Efficacious TLR7/8 Antagonist.

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

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