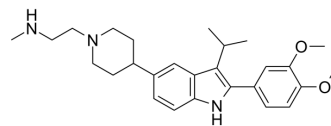


TLR7/8/9-IN-1

Cat. No.:	HY-131952
CAS No.:	2180127-82-4
Molecular Formula:	C ₂₇ H ₃₇ N ₃ O ₂
Molecular Weight:	435.6
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 : 83.33 mg/mL (191.30 mM); ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2957 mL	11.4784 mL	22.9568 mL
	5 mM	0.4591 mL	2.2957 mL	4.5914 mL
	10 mM	0.2296 mL	1.1478 mL	2.2957 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TLR7/8/9-IN-1 is a potent and orally bioavailable small molecule antagonist (IC₅₀ = 43 nM) of Toll-like receptors 7/8/9 (TLR7/8/9).

CUSTOMER VALIDATION

- Cell Commun Signal. 2023 May 1;21(1):86.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Mussari CP, et al. Discovery of Potent and Orally Bioavailable Small Molecule Antagonists of Toll-like Receptors 7/8/9 (TLR7/8/9). ACS Med Chem Lett. 2020 Jul 29;11(9):1751-1758.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA