## TLR9-IN-1

®

MedChemExpress

Cat. No.:	HY-148045
CAS No.:	2226366-86-3
Molecular Formula:	C <sub>23</sub> H <sub>31</sub> N <sub>7</sub> O
Molecular Weight:	421.54
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

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.3723 mL	11.8613 mL	23.7225 mL	
		5 mM	0.4745 mL	2.3723 mL	4.7445 mL	
		10 mM	0.2372 mL	1.1861 mL	2.3723 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: ≥ 12.5 mg/mL (29.65 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 12.5 mg/mL (29.65 mM); Clear solution					

BIOLOGICAL ACTIVITY		
Description	TLR9-IN-1 is a potent and selective TLR9 inhibitor with an IC <sub>50</sub> value of 7 nM for human TLR9. TLR9-IN-1 can be used for researching diseases associated with undesirable immune response <sup>[1]</sup> .	
IC₅₀ & Target	human TLR9 7 nM (IC <sub>50</sub> )	
In Vitro	TLR9-IN-1 (compound no.29) (0-10 μM; 24 h) exhibits moderately inhibitory activity against IL-1b with an IC <sub>50</sub> of 1.61 μM in human monocytes (co-incubated with TLR8 agonist ORN8L, RNA oligonucleotide) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Albert Frederick Candia, et al. Toll-like receptor antagonist compounds and methods of use. WO2018089695

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

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