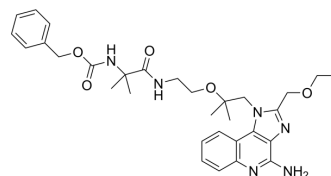


TLR8 agonist 5

Cat. No.:	HY-148338
CAS No.:	2413016-41-6
Molecular Formula:	C ₃₁ H ₄₀ N ₆ O ₅
Molecular Weight:	576.69
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (86.70 mM); ultrasonic and warming and heat to 60°C																			
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Preparing Stock Solutions 1 mM</td> <td>1.7340 mL</td> <td>8.6702 mL</td> <td>17.3403 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3468 mL</td> <td>1.7340 mL</td> <td>3.4681 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1734 mL</td> <td>0.8670 mL</td> <td>1.7340 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	Preparing Stock Solutions 1 mM	1.7340 mL	8.6702 mL	17.3403 mL	5 mM	0.3468 mL	1.7340 mL	3.4681 mL	10 mM	0.1734 mL	0.8670 mL	1.7340 mL
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	Please refer to the solubility information to select the appropriate solvent.																			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution 																			

BIOLOGICAL ACTIVITY

Description	TLR8 agonist 5 is a potent TLR8 agonist with an EC ₅₀ value of 20 nM for HEK-Blue hTLR8. TLR8 agonist 5 activates the immune response ^[1] .
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REFERENCES

[1]. Smith SW, et, al. Benzazepine compounds, conjugates, and uses thereof. WO2020056194.

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

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