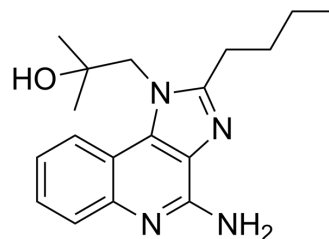


## TLR7 agonist 3

<b>Cat. No.:</b>	HY-117602		
<b>CAS No.:</b>	1229024-78-5		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>24</sub> N <sub>4</sub> O		
<b>Molecular Weight:</b>	312.41		
<b>Target:</b>	Toll-like Receptor (TLR)		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (320.09 mM; Need ultrasonic)  
 Ethanol : ≥ 50 mg/mL (160.05 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2009 mL	16.0046 mL	32.0092 mL
	5 mM	0.6402 mL	3.2009 mL	6.4018 mL
	10 mM	0.3201 mL	1.6005 mL	3.2009 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: ≥ 2.5 mg/mL (8.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

TLR7 agonist 3 (Compound 2) is a potent agonist of toll-like receptor 7 (TLR7). TLR7 has an important role in immune activation processes and represents an emerging agent discovery target for the development of immunomodulators<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

TLR7

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## REFERENCES

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[1]. Urban Švajger, et al. New antagonists of toll-like receptor 7 discovered through 3D ligand-based virtual screening. Medicinal Chemistry Research. 2015. 24: 362-371.

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

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