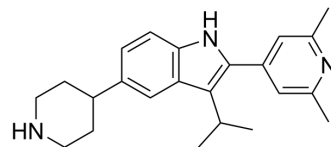


## BMS905

Cat. No.:	HY-153254	
CAS No.:	2205846-49-5	
Molecular Formula:	C <sub>23</sub> H <sub>29</sub> N <sub>3</sub>	
Molecular Weight:	347.5	
Target:	Toll-like Receptor (TLR)	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.5 mg/mL (35.97 mM); ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.8777 mL	14.3885 mL	28.7770 mL
5 mM	0.5755 mL	2.8777 mL	5.7554 mL
10 mM	0.2878 mL	1.4388 mL	2.8777 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: ≥ 1.25 mg/mL (3.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1.25 mg/mL (3.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (3.60 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

BMS905 is an orally active TLR7 and TLR8 dual inhibitor (IC<sub>50</sub>s: 0.7 and 3.2 nM respectively). BMS905 inhibits TLR7 or TLR8 induced IL-6 production in human/mouse whole blood. BMS905 can be used for research of lupus<sup>[1]</sup>.

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

TLR8<sup>[1]</sup>

### REFERENCES

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

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