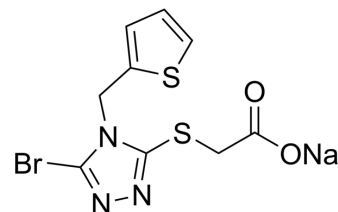


## URAT1 inhibitor 6

<b>Cat. No.:</b>	HY-153969		
<b>CAS No.:</b>	2244807-49-4		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>7</sub> BrN <sub>3</sub> NaO <sub>2</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	356.19		
<b>Target:</b>	URAT1		
<b>Pathway:</b>	Membrane Transporter/Ion Channel		
<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 (280.75 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.8075 mL	14.0375 mL	28.0749 mL
	5 mM		0.5615 mL	2.8075 mL	5.6150 mL
	10 mM		0.2807 mL	1.4037 mL	2.8075 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 (7.02 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (7.02 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 2.5 mg/mL (7.02 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

URAT1 inhibitor 6 (Compound 1h) is a potent URAT1 inhibitor (IC<sub>50</sub>: 35 nM for hURAT1). URAT1 inhibitor 6 is 200- and 8-fold more potent than parent Lesinurad (HY-15258) and Benzbromarone (HY-B1135). URAT1 inhibitor 6 can be used for research of inflammation<sup>[1]</sup>.

### REFERENCES

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[1]. Cai W, et al. Systematic Structure-Activity Relationship (SAR) Exploration of Diarylmethane Backbone and Discovery of A Highly Potent Novel Uric Acid Transporter 1 (URAT1) Inhibitor. Molecules. 2018 Jan 27;23(2):252.

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

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