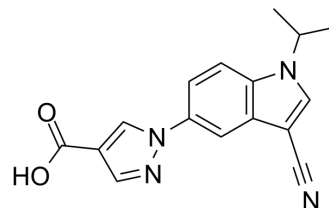


## Tigulixostat

Cat. No.:	HY-139585		
CAS No.:	1287766-55-5		
Molecular Formula:	C <sub>16</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>		
Molecular Weight:	294.31		
Target:	Xanthine Oxidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (339.78 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3978 mL	16.9889 mL	33.9778 mL
5 mM	0.6796 mL	3.3978 mL	6.7956 mL
10 mM	0.3398 mL	1.6989 mL	3.3978 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 (8.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.49 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tigulixostat (LC350189) is an orally active, non-purine selective xanthine oxidase inhibitor. Tigulixostat lowers the production of uric acid. Tigulixostat can be used for gout and hyperuricemia study<sup>[1]</sup>.

### REFERENCES

- [1]. Seonghae Yoon, et al. Pharmacokinetics, pharmacodynamics, and tolerability of LC350189, a novel xanthine oxidase inhibitor, in healthy subjects. Drug Des Devel Ther.

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

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