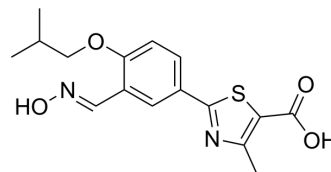


## Febuxostat impurity 7

<b>Cat. No.:</b>	HY-131269		
<b>CAS No.:</b>	1350352-70-3		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	334.39		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (747.63 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		2.9905 mL	14.9526 mL	29.9052 mL
		5 mM		0.5981 mL	2.9905 mL	5.9810 mL
10 mM			0.2991 mL	1.4953 mL	2.9905 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.22 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Febuxostat impurity 7 is an impurity of Febuxostat. Febuxostat is selective xanthine oxidase inhibitor with a K <sub>i</sub> of 0.6 nM <sup>[1]</sup> .
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### REFERENCES

[1]. Manne Satyanarayana Reddy, et al. Process for preparation of 2-[3-cyano-4-(2-methylpropoxy)phenyl]-4-methylthiazole-5-carboxylic acid and its pharmaceutically acceptable salts. WO2011141933A2.

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

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