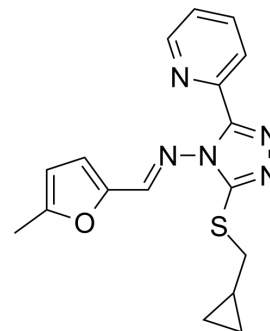


Transketolase-IN-1

Cat. No.:	HY-139731		
CAS No.:	2763650-87-7		
Molecular Formula:	C ₁₇ H ₁₇ N ₅ OS		
Molecular Weight:	339.41		
Target:	Transketolase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	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 (294.63 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9463 mL	14.7314 mL	29.4629 mL
5 mM	0.5893 mL	2.9463 mL	5.8926 mL
10 mM	0.2946 mL	1.4731 mL	2.9463 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 (7.37 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 (7.37 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (7.37 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Transketolase-IN-1 is a promising herbicide candidate for weed control in wheat and maize fields targeting transketolase.

REFERENCES

- [1]. Wang YE, et al. Design, Synthesis, and Herbicidal Activity of Thioether Containing 1,2,4-Triazole Schiff Bases as Transketolase Inhibitors. J Agric Food Chem. 2021 Oct

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

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