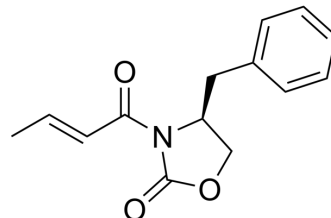


(E/Z)-Locostatin

Cat. No.:	HY-W013411		
CAS No.:	133812-16-5		
Molecular Formula:	C ₁₄ H ₁₅ NO ₃		
Molecular Weight:	245.27		
Target:	Others		
Pathway:	Others		
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 (407.71 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	4.0771 mL	20.3857 mL	40.7714 mL
	5 mM	0.8154 mL	4.0771 mL	8.1543 mL
	10 mM	0.4077 mL	2.0386 mL	4.0771 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.19 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (10.19 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.19 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	(E/Z)-Locostatin ((E/Z)-UIC-1005) is a racemic of Locostatin. Locostatin (UIC-1005) is a potent RKIP inhibitor. Locostatin binds Raf kinase inhibitor RKIP protein and disrupts the interaction of RKIP with Raf-1 kinase and G protein-coupled receptor kinase 2. Locostatin inhibits cell proliferation and migration. Locostatin aggravates thioacetamide (HY-Y0698)-induced acute liver failure in mice ^{[1][2][3]} .
IC₅₀ & Target	RKIP ^[3]

REFERENCES

- [1]. Beshir AB, et al. Locostatin Disrupts Association of Raf Kinase Inhibitor Protein With Binding Proteins by Modifying a Conserved Histidine Residue in the Ligand-Binding Pocket. *For Immunopathol Dis Therap.* 2011;2(1):47-58.
- [2]. Mc Henry KT, et al. A non-antibacterial oxazolidinone derivative that inhibits epithelial cell sheet migration. *Chembiochem.* 2002 Nov 4;3(11):1105-11.
- [3]. Lin X, et al. Inhibition of RKIP aggravates thioacetamide-induced acute liver failure in mice. *Exp Ther Med.* 2018 Oct;16(4):2992-2998.
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Caution: Product has not been fully validated for medical applications. For research use only.

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