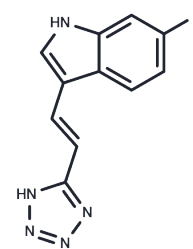


LM10

Chemical Properties

CAS No. : 1316695-35-8
 Formula: C₁₁H₈FN₅
 Molecular Weight: 229.21
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Selective tryptophan 2, 3-dioxygenase (TDO) inhibitor (IC ₅₀ values are 0.62 and 2 μM for human and mouse TDO, respectively). Exhibits selectivity for TDO over IDO, MAO-A, MAO-B, and a panel of receptors and transporters. Reduces growth of TDO-expressing P815 mastocytoma tumors in mice. Orally bioavailable.
Targets(IC ₅₀)	Others, IDO, Indoleamine 2,3-Dioxygenase (IDO)

Solubility Information

Solubility	Ethanol: 4.58 mg/mL (19.98 mM), Sonication is recommended. DMSO: 250 mg/mL (1090.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (43.63 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (43.63 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3628 mL	21.8141 mL	43.6281 mL
5 mM	0.8726 mL	4.3628 mL	8.7256 mL
10 mM	0.4363 mL	2.1814 mL	4.3628 mL
50 mM	0.0873 mL	0.4363 mL	0.8726 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pilotte L,etal.Reversal of tumoral immune resistance by inhibition of tryptophan 2,3-dioxygenase.Proc Natl Acad Sci U S A. 2012 Feb 14;109(7):2497-502.

Huang W,etal.Crystal structure of Drosophila melanogaster tryptophan 2,3-dioxygenase reveals insights into substrate recognition and catalytic mechanism.J Struct Biol. 2013 Mar;181(3):291-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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