

Tirbanibulin Mesylate

Chemical Properties

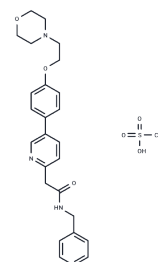
CAS No. : 1080645-95-9

Formula: C₂₇H₃₃N₃O₆S

Molecular Weight: 527.63

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Tirbanibulin Mesylate (KX01 Mesylate) is an inhibitor of Src that targets the peptide substrate site of Src (GI50: 9-60 nM in cancer cell lines).
Targets(IC50)	Microtubule Associated,Src
In vitro	Tirbanibulin Mesylate is found to inhibit certain leukemia cells that are resistant to current commercially available drugs, such as those derived from chronic leukemia cells with the T3151 mutation. Tirbanibulin Mesylate displays steep dose-response curves against Huh7 (GI50=9 nM), PLC/PRF/5 (GI50=13 nM), Hep3B (GI50=26 nM), and HepG2 (GI50=60 nM), four hepatic cell cancer (HCC) cell lines [1]. Tirbanibulin Mesylate is evaluated in engineered Src drove cell growth assays inNIH3T3/c-Src527F and SYF/c-Src527F cells and exhibits GI50 with 23 nM and 39 nM, respectively [2].
In vivo	In pre-clinical animal models of cancer, Tirbanibulin Mesylate (p.o.) is shown to inhibit primary tumor growth and to suppress metastasis [2].

Solubility Information

Solubility	DMSO: 99 mg/mL (187.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8953 mL	9.4763 mL	18.9527 mL
5 mM	0.3791 mL	1.8953 mL	3.7905 mL
10 mM	0.1895 mL	0.9476 mL	1.8953 mL
50 mM	0.0379 mL	0.1895 mL	0.3791 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.

Reference

Lau GM, et al. Expression of Src and FAK in hepatocellular carcinoma and the effect of Src inhibitors on hepatocellular carcinoma in vitro. Dig Dis Sci, 2009, 54(7), 1465-1474.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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