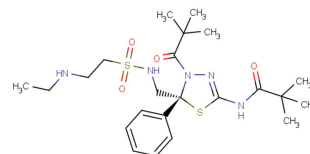


Litronesib

Chemical Properties

CAS No.:	910634-41-2
Formula:	C ₂₃ H ₃₇ N ₅ O ₄ S ₂
Molecular Weight:	511.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Litronesib is a selective inhibitor of mitosis-specific kinesin Eg5. It also has antitumor activity.
Targets(IC ₅₀)	Eg5: None
In vitro	Litronesib (LY2523355) is a selective Eg5 inhibitor. Litronesib (25 nM) induces cancer cells to death during mitotic arrest, and this needs sustained activation of spindle-assembly checkpoint (SAC) [1].
In vivo	Litronesib (1.1, 3.3, 10, and 30 mg/kg, i.v.) displays antitumor activity in a dose-dependently. It also leads to a dramatic increase in cancer cells immuno-positive for histone H3 phosphorylation in Colo205 xenograft tumors [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (97.71 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.954 mL	9.771 mL	19.543 mL
5 mM	0.391 mL	1.954 mL	3.909 mL
10 mM	0.195 mL	0.977 mL	1.954 mL
50 mM	0.039 mL	0.195 mL	0.391 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Ye XS, et al. A Novel Eg5 Inhibitor (LY2523355) Causes Mitotic Arrest and Apoptosis in Cancer Cells and Shows Potent Antitumor Activity in Xenograft Tumor Models. Mol Cancer Ther. 2015 Nov;14(11):2463-72.

Inhibitors · Natural Compounds · Compound Libraries

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