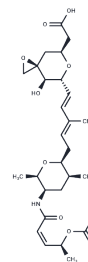


Thailanstatin A

Chemical Properties

CAS No. :	1426953-21-0
Formula:	C ₂₈ H ₄₁ NO ₉
Molecular Weight:	535.63
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Thailanstatin A is an ultra-potent inhibitor of eukaryotic RNA splicing (IC ₅₀ =650 nM). Thailanstatin A inhibits multiple cancer cell lines via non-covalent binding to the SF3b subunit of the U2 snRNA subcomplex of the spliceosome and shows low-nM to sub-nM IC ₅₀ s against . Thailanstatin A, a payload for ADCs, is conjugated to the lysines on trastuzumab yielding “linker-less” ADC.
In vitro	Thailanstatin A (TST-A) is a potent antiproliferative natural product discovered by our group from Burkholderia thailandensis MSMB43 [2]. Thailanstatin A (DU-145, NCI-H232A, MDA-MB-231 and SKOV-3 cells) shows potent antiproliferative activities with GI ₅₀ s in the single nM range (1.11-2.69 nM) [3].

Solubility Information

Solubility	DMSO: 245 mg/mL (457.41 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	1.867 mL	9.3348 mL	18.6696 mL
5 mM	0.3734 mL	1.867 mL	3.7339 mL
10 mM	0.1867 mL	0.9335 mL	1.867 mL
50 mM	0.0373 mL	0.1867 mL	0.3734 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

Puthenveetil S, et al. Natural Product Splicing Inhibitors: A New Class of Antibody-Drug Conjugate (ADC) Payloads. Bioconjug Chem. 2016;27(8):1880-1888.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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