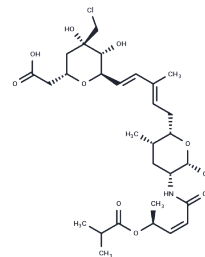


## Thailanstatin C

## Chemical Properties

CAS No. :	1426953-24-3
Formula:	C <sub>30</sub> H <sub>46</sub> ClNO <sub>9</sub>
Molecular Weight:	600.15
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	Thailanstatin C, an antiproliferative agent derived from <i>Burkholderia thailandensis</i> MSMB43, functions as a potent inhibitor of pre-mRNA splicing (IC <sub>50</sub> = 6.84 μM).
Targets(IC <sub>50</sub> )	Others, DNA/RNA Synthesis
In vitro	Thailanstatin C effectively inhibits various human cancer cell lines, demonstrating IC <sub>50</sub> values ranging from 2.98 to 8.82 nM across DU-145, NCI-H232A, MDA-MB-231, and SKOV-3 cells[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6663 mL	8.3313 mL	16.6625 mL
5 mM	0.3333 mL	1.6663 mL	3.3325 mL
10 mM	0.1666 mL	0.8331 mL	1.6663 mL
50 mM	0.0333 mL	0.1666 mL	0.3333 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

Liu X, et al. Genomics-guided discovery of thailanstatins A, B, and C As pre-mRNA splicing inhibitors and antiproliferative agents from *Burkholderia thailandensis* MSMB43. *J Nat Prod.* 2013;76(4):685-693.

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