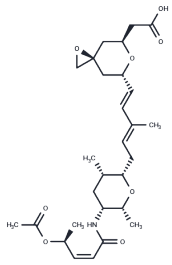
# Data Sheet (Cat.No.T39071)

TargetMol

## Thailanstatin D

### Chemical Properties



CAS No. : 1609105-89-6

Formula: C28H41NO8

Molecular Weight: 519.635

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 D, an analogue of Thailanstatin A, inhibits AR-V7 gene splicing by disrupting the interaction between U2AF65 and SAP155, hindering their binding to the polypyrimidine tract situated between the branch point and the 3' splice site. This compound displays potent tumor inhibitory properties in human castration-resistant prostate cancer (CRPC) xenografts, resulting in cellular apoptosis. |
| Targets(IC50) | Apoptosis,Others,DNA/RNA Synthesis |
| In vitro | Thailanstatin D (0-50 nM; 4 hours) significantly reduces AR-V7 and other AR splice variants (AR-Vs)[1] protein levels and dose-dependently suppresses mRNA levels of AR-V7 and AR-FL in VCaP, 22RV1, and LN95 cell lines, as observed in a Cell Viability Assay[1]. |
| In vivo | Thailanstatin D, administered at a dosage of 300 μg/kg through ALZET osmotic pumps daily for four days, significantly inhibited tumor growth in an animal model of NOD-SCID mice bearing 22RV1 xenografts. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.9244 mL | 9.622 mL | 19.2441 mL |
| 5 mM | 0.3849 mL | 1.9244 mL | 3.8488 mL |
| 10 mM | 0.1924 mL | 0.9622 mL | 1.9244 mL |
| 50 mM | 0.0385 mL | 0.1924 mL | 0.3849 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

Wang B, et al. Developing new targeting strategy for androgen receptor variants in castration resistant prostate cancer. Int J Cancer. 2017;141(10):2121-2130.



Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481