

Capzimin

Catalog No: tcsc0042403



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

2084868-04-0

Formula:

$C_{30}H_{24}N_6O_2S_4$

Pathway:

Metabolic Enzyme/Protease

Target:

Proteasome

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 55.67 mg/mL (88.53 mM)

Observed Molecular Weight:

628.81

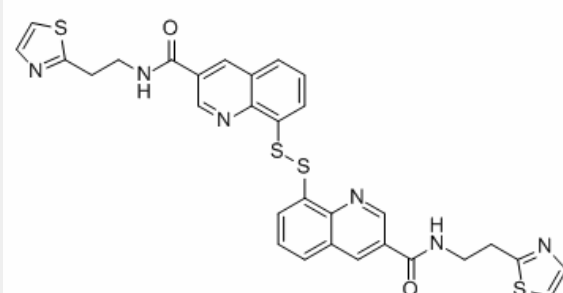
Product Description

Capzimin is a potent and moderately specific proteasome isopeptidase **Rpn11** inhibitor.

IC50 & Target: Target: Rpn11^[1]

In Vitro:

Capzimin (3027) shows 80-fold selectivity for Rpn11 over Csn5, 10-fold over AMSH and 6-fold over BRCC36 (IC_{50} =30 μ M, 4.5 μ M and 2.3 μ M respectively). Capzimin is screened against the NCI panel of 60 cancer cell lines. The median GI_{50} is 3.3 μ M. Capzimin exhibits promising activity in leukemia cells including the SR and K562 cell lines (GI_{50} values of 0.67 μ M and 1 μ M respectively), as well as several solid tumor cell lines including NCI-H460 (non-small cell lung cancer; GI_{50} = 0.7 μ M) and MCF7 (breast cancer; GI_{50} =1.0 μ M). Immunoblotting for the processed form of caspase 3 and caspase-cleaved poly ADP-ribose polymerase in HCT116 cells confirm that Capzimin not only blocks cell growth, but also induces apoptosis^[1].



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