

SM-164, Smac mimetic

Catalog	Unit
TBI5464 - 1MG	1 mg
TBI5464 - 5MG	5 mg

Product Details

Formal Name: (3S,3'S,6S,6'S,10aS,10'aS)-N,N'-[1,4-phenylenebis[4,1-butanediyl]-1H-1,2,3-triazole-1,4-diyl][(S)-phenylmethylene]]bis[decahydro-6-[[[(2S)-2-(methylamino)-1-oxopropyl]amino]-5-oxo-pyrrolo[1,2-a]azocine-3-carboxamide

Molecular Formula: C₆₂H₈₄N₁₄O₆

Formula Weight: 1121.45

CAS Number: 957135-43-2

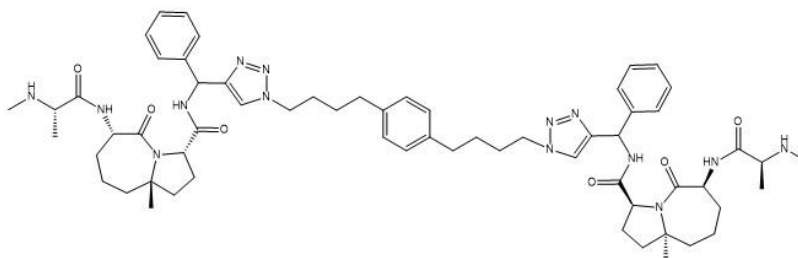
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (50 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Smac mimetic

Functions

SM-164 (957135-43-2) is a cell-permeable Smac (DIABLO) mimetic that inhibits caspase blockers XIAP, cIAP1, and cIAP2 ($K_i = 36, <1, \text{ and } <1.9 \text{ nM}$), thus inducing apoptosis. SM-164 sensitizes cancer cells to DNA damaging agents. It also prevents binding of Hsp70 to XIAP. At high concentrations, it causes lytic cell death that is neither apoptosis nor necroptosis.

Application Procedures

First dissolved in DMSO (50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

For research use only.