



SM-164

Data Sheet

Catalog Number:	MC11126	Product Type:	Small Molecule
Bio-Activity:	Smac mimetic	CAS #:	957135-43-2
Research Categories:	Cell death, cancer	Chemical 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-diy]]bis[decahydro-6-[(2S)-2-(methylamino)-1-oxopropyl]amino]-5-oxo-pyrrolo[1,2-a]azocine-3-carboxamide
Solubility:	Soluble in DMSO (50 mg/ml)	Molecular Formula:	C62H84N14O6
Purity:	> 98%	Molecular Weight:	1121.4
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Cell-permeable Smac (DIABLO) mimetic that inhibits caspase blockers XIAP, cIAP1, and cIAP2 ($K_i = 36, <1$, and <1.9 nM), thus inducing apoptosis [1-3]. SM-164 sensitizes cancer cells to DNA damaging agents [4]. It also prevents binding of Hsp70 to XIAP [5]. At high concentrations, it causes lytic cell death that is not apoptosis or necrosis [6].

References:

- 1) H Sun et al. J. Am. Chem. Soc. 2007 129:15279
- 2) H Sun et al. J. Med. Chem. 2010 53:6361
- 3) J Lu et al. Cancer Res. 2008 68:9384
- 4) J Chen et al. Mol. Med. Rep. 2019 19:5079
- 5) LC Cesa et al. J. Biol. Chem. 2018 293:2370

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