

Product Datasheet

Birinapant (orb1226656)

Catalog Number	orb1226656
Category	Small Molecules
Description	Birinapant is a SMAC mimetic antagonist, mostly to cIAP1 with K_d of <1 nM, less potent to XIAP. Phase 2.(In Vitro):Birinapant (TL32711) (30-10000 nM; 24 hours) significantly decreases the viability of SUM190 cells in a dose-dependent manner.Birinapant (TL32711) (30-1000 nM; 4 hours) shows a significant decrease in cIAP1 levels and enhanced PARP cleavage, and induces apoptosis.Birinapant (TL32711) binds with high affinity to the isolated BIR3 domains of cIAP1, cIAP2, and XIAP and the single BIR domain of ML-IAP and rapidly degrades TRAF2-bound cIAP1 and cIAP2 thereby inhibiting TNF-mediated NF-κB activation.(In Vivo):Birinapant (TL32711) (30 mg/kg; i.p.; every third day (*5)) shows antitumor efficacy and are devoid of overt toxicity in preclinical models.
Target	IAP
Purity	>98% (HPLC)
MW	806.94
Target Areas	cIAP1 XIAP
Solubility (25°C)	DMSO:100 mg/mL (123.92 mM); Ethanol:55 mg/mL (68.15 mM); Water□1 mg/mL (1 mM)
CAS Number	1260251-31-7
Formula	C ₄₂ H ₅₆ F ₂ N ₈ O ₆
SMILES	<chem>C[C@H](NC)C(N[C@@H](CC)C(N1[C@H](CC2=C(C(N3)=C(C[C@H]4N(C([C@@H](NC([C@@H](NC)C)=O)CC)=O)C[C@@H](O)C4)C5=C3C=C(F)C=C5)NC6=C2C=C(C(F)=C6)C[C@H](O)C1)=O)=O</chem>

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Chemical Name	(2S)-N-[(2S)-1-[(2R,4S)-2-[[6-fluoro-2-[6-fluoro-3-[(2R,4S)-4-hydroxy-1-[(2S)-2-[[[(2S)-2-(methylamino)propanoyl]amino]butanoyl]pyrrolidin-2-yl]methyl]-1H-indol-2-yl]-1H-indol-3-yl]methyl]-4-hydroxypyrrolidin-1-yl]-1-oxobutan-2-yl]-2-(methylamino)propanamide
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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