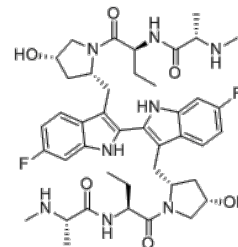


Product Name : Birinapant
Cat. No. : PC-21402
CAS No. : 1260251-31-7
Molecular Formula : C₄₂H₅₆F₂N₈O₆
Molecular Weight : 806.96
Target : IAP
Solubility : 10 mM in DMSO



Biological Activity

Birinapant (TL32711) is a bivalent, selective small molecule SMAC mimetic, binds with high affinity to multiple members of the **IAP family** with K_d of 45 nM and <1 nM for XIAP and cIAP1 respectively.

Birinapant (TL32711) binds to the BIR3 domains of cIAP1, cIAP2, XIAP, and the BIR domain of ML-IAP in vitro.

v specifically targets cIAP1 and cIAP2 for degradation, resulting in a switch in TNFR signaling; activation of TNFR upon binding of TNF-α in the presence of cIAP1 and cIAP2 leads to NF-κB activation and increased cell proliferation.

Birinapant (TL32711) in combination with TNF-α elicits anti-melanoma effect in a parental and BRAF inhibitor resistant cell line.

Birinapant (TL32711) preferentially targets the TRAF2-associated cIAP1 and cIAP2 with subsequent inhibition of TNF-induced NF-κB activation.

Birinapant (TL32711) inhibits tumor growth in multiple primary patient-derived xenotransplant models.

References

Benetatos CA, et al. *Mol Cancer Ther.* 2014 Apr;13(4):867-79.

Krepler C, et al. *Clin Cancer Res.* 2013 Apr 1;19(7):1784-94.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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