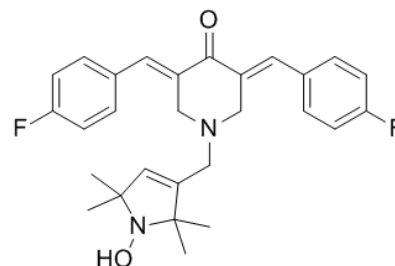


Product Name : HO-3867
Cat. No. : PC-42160
CAS No. : 1172133-28-6
Molecular Formula : C₂₈H₃₀F₂N₂O₂
Molecular Weight : 464.5468
Target : STAT
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

HO-3867 is a synthetic curcuminoid that selectively inhibits **STAT3** phosphorylation, transcription, and DNA binding without affecting the expression of other active STATs.

HO-3867 induces G2-M cell cycle arrest in A2780 cells by modulating cell cycle regulatory molecules p53, p21, p27, CDK 2, and cyclin, and promotes apoptosis.

HO-3867 inhibits pSTAT3 (Tyr705 and Ser727) and JAK1 and increases apoptotic markers cleaved caspase-3 and PARP in xenograft tumor tissues.

References

Rath KS, et al. *Cancer Res.* 2014 Apr 15;74(8):2316-27.

Selvendiran K, et al. *Mol Cancer Ther.* 2010 May;9(5):1169-79.

Selvendiran K, et al. *Cancer Biol Ther.* 2011 Nov 1;12(9):837-45.

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

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