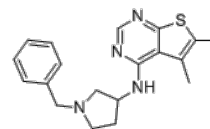


Product Name : Fasnall
Cat. No. : PC-20378
CAS No. : 929978-58-5
Molecular Formula : C₁₉H₂₂N₄S
Molecular Weight : 338.47
Target : Fatty Acid Synthase
Solubility : 10 mM in DMSO



Biological Activity

Fasnall is a potent, selective **fatty acid synthase** (FASN) inhibitor with IC₅₀ of 3.71 uM for purified human FASN isolated from the BT474 cell line.

Fasnall potently blocked both acetate and glucose incorporation into total lipids, with IC₅₀ values of 147 and 213 nM, respectively, in HepG2 cells.

Fasnall inhibits the incorporation of tritiated acetate in BT474 cells with IC₅₀ of 5.84 uM.

Fasnall does not inhibit ACC (acetyl-CoA carboxylase), Hsp90, Hsp70, TRAP-1, DAP kinase 3, IRAK 2, AMPK α and γ subunits, NEK9, dengue nonstructural protein 5, malarial kinase PfPK9, and HSF-1.

Fasnall inhibited the proliferation of aggressive breast cancer cell lines, with profound changes in cellular lipid profiles, sharply increasing ceramides, diacylglycerols, and unsaturated fatty acids.

Fasnall (5-15 mg/kg) showed potent anti-tumor activity in the MMTV-Neu model of HER2+ breast cancer.

References

Alwarawrah Y, et al. *Cell Chem Biol.* 2016 Jun 23;23(6):678-88.

Gifford GK, et al. *Leuk Lymphoma.* 2020 Aug;61(8):1810-1822.

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

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