

Fasnall HCl

Chemical Properties

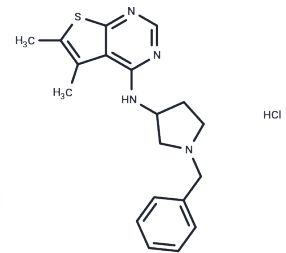
CAS No. :

Formula: C₁₉H₂₃ClN₄S

Molecular Weight: 374.93

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fasnall HCl is a selective FASN inhibitor that acts through its co-factor binding sites. Fasnall HCl also shows potent anti-tumor activity in the MMTV-Neu model of HER2(+) breast cancer, particularly when combined with carboplatin.
Targets(IC50)	Fatty Acid Synthase
In vitro	Fasnall HCl potently blocked both acetate and glucose incorporation into total lipids, with IC ₅₀ values of 147 and 213 nM, respectively, in HepG2 cells. Fasnall HCl inhibited FASN with IC ₅₀ values of 3.71 μM in vitro. The molecules were tested in the acetate incorporation assay in BT474 cells. Fasnall HCl is able to inhibit the incorporation of tritiated acetate (IC ₅₀ 5.84 μM, respectively) into lipids [1].
In vivo	FVB/J mice received 5, 20, or 80 mg/kg Fasnall HCl via intraperitoneal injection on days 1 and 3. Fasnall HCl was toxic at 80 mg/kg, but at 5–20 mg/kg was well tolerated with no adverse effects on white blood cell counts, hemoglobin levels, kidney, or liver functions. Cohorts of MMTV-Neu mice were treated with a biweekly intraperitoneal injection of 15 mg/kg Fasnall HCl, shows that Fasnall HCl reduced tumor volume compared with vehicle-treated animals [1].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (60.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6672 mL	13.3358 mL	26.6716 mL
5 mM	0.5334 mL	2.6672 mL	5.3343 mL
10 mM	0.2667 mL	1.3336 mL	2.6672 mL
50 mM	0.0533 mL	0.2667 mL	0.5334 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Alwarawrah Y, et al. Fasnall, a Selective FASN Inhibitor, Shows Potent Anti-tumor Activity in the MMTV-Neu Model of HER2(+) Breast Cancer. Cell Chem Biol. 2016 Jun 23;23(6):678-88.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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