

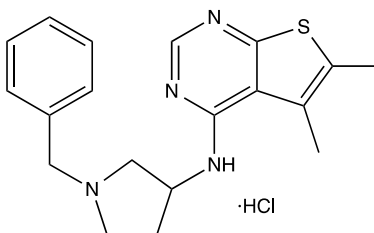
Catalog # 10-1613

Fasnall HCl

CAS# 929978-58-5

5,6-Dimethyl-N-[1-(phenylmethyl)-3-pyrrolidinyl]thieno[2,3-d]pyrimidin-4-amine benzenesulfonate, hydrochloride

Lot # S103155



A potent and selective fatty acid synthase (FASN) inhibitor acting via interfering with cofactor binding.¹ IC_{50s} = 147 and 213 nM respectively for inhibition of acetate and glucose incorporation into total lipids in HepG2 cells. IC₅₀=5.84 μM in an isolated enzyme assay. Displays potent antitumor activity in the MMTV-Neu HER2⁺ breast cancer model¹. Reduces HIV-1 virion production by 90% (EC₅₀=213 nM).²

- 1) Alwarawrah *et al.* (2016) *Fasnall, a Selective FASN Inhibitor, Shows Potent Anti-tumor Activity in the MMTV-Neu Model of HER2(+) Breast Cancer*, *Cell Chem. Biol.*, **23** 678
- 2) Kulkarni *et al.* (2017), *Cellular fatty acid synthase is required for late stages of HIV-1 replication*; *Retrovirology*, **14** 45

PHYSICAL DATA

Molecular Weight:	374.93
Molecular Formula:	C ₁₉ H ₂₂ N ₄ S·HCl
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in water (up to 45 mg/ml); DMSO (25 mg/mL)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in water or DMSO may be stored at -20°C for up to 3 months.

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