## Fasnall

Cat. No.:	HY-121250		
CAS No.:	929978-58-5		
Molecular Formula:	$C_{19}H_{22}N_{4}S$		
Molecular Weight:	338.47		
Target:	Fatty Acid S	ynthase (I	FASN); Apoptosis
Pathway:	Metabolic Er	nzyme/Pr	otease; Apoptosis
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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Product Data Sheet

Description	Fasnall is a selective fatty a cancer cell lines. Fasnall sh	acid synthase (FASN) inhibitor with an IC <sub>50</sub> of 3.71 $\mu$ M. Fasnall induces apoptosis in HER2 <sup>+</sup> breast nows potent anti-tumor activities <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC50: 3.71 $\mu$ M (human purified FASN activity) <sup>[1]</sup>		
In Vitro	Fasnall potently blocks both acetate and glucose incorporation into total lipids, with IC <sub>50</sub> values of 147 and 213 nM, respectively, in HepG2 cells <sup>[1]</sup> . Fasnall (50 μM; 24-120 h) inhibits proliferation in breast cancer cell lines <sup>[1]</sup> . Fasnall (25-100 μM; 24 h) induces apoptosis in HER2 <sup>+</sup> breast cancer cell lines <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>		
	Cell Line:	MCF7, MDA-MB-468, BT474 and SKBR3 cells	
	Concentration:	50 μΜ	
	Incubation Time:	24 h, 48 h, 72 h, 96 h, 120 h	
	Result:	Inhibited the proliferation of aggressive cell lines, but showed lower activity in the non- tumorigenic cell line MCF10A.	
	Apoptosis Analysis <sup>[1]</sup>		
	Cell Line:	MCF7, MDA-MB-468, BT474 and SKBR3 cells	
	Concentration:	25 μΜ, 50 μΜ , 75 μΜ, 100 μΜ	
	Incubation Time:	24 h	
	Result:	Induced caspase-3 and caspase-7 activation.	
In Vivo	Fasnall (15 mg/kg, intraped breast cancer <sup>[1]</sup> . MCE has not independentl	ritoneally, twice weekly; 3 weeks) shows potent anti-tumor activity in MMTV-Neu model of HER2 <sup>+</sup> y confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	Female MMTV-NEU mice bearing HER2 <sup>+</sup> breast cancer cells <sup>[1]</sup>
Dosage:	15 mg/kg
Administration:	i.p.; twice weekly; 3 weeks
Result:	Reduced tumor volume, and increased the median survival of the MMTV-Neu mice to 63 days.

## REFERENCES

[1]. Yazan Alwarawrah, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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