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Zuschläge

- Mindermengenzuschlag
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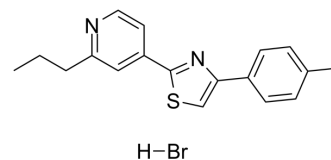
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Fatostatin hydrobromide

Cat. No.:	HY-14452A
CAS No.:	298197-04-3
Molecular Formula:	C ₁₈ H ₁₉ BrN ₂ S
Molecular Weight:	375.33
Target:	Fatty Acid Synthase (FASN)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (66.61 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.6643 mL	13.3216 mL	26.6432 mL
		5 mM		0.5329 mL	2.6643 mL	5.3286 mL
		10 mM		0.2664 mL	1.3322 mL	2.6643 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.54 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (2.66 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Fatostatin hydrobromide (125B11 hydrobromide), a specific inhibitor of SREBP activation, impairs the activation of SREBP-1 and SREBP-2. Fatostatin hydrobromide binds to SCAP (SREBP cleavage-activating protein), and inhibits the ER-Golgi translocation of SREBPs. Fatostatin hydrobromide decreases the transcription of lipogenic genes in cells. Fatostatin hydrobromide possesses antitumor properties, and lowers hyperglycemia in ob/ob mice ^{[1][2]} .
In Vitro	Fatostatin hydrobromide (125B11 hydrobromide) (0.1-1 μM; 3 days) inhibits the androgen-independent prostate cancer cell proliferation (IC₅₀=0.1 μM) in an independent of the known IGF1-signaling pathway. Fatostatin hydrobromide inhibits insulin-induced adipogenesis of 3T3-L1 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay^[1]

	Cell Line:	DU-145 cells
	Concentration:	0.1, 1 μ M
	Incubation Time:	3 days
	Result:	Impaired the IGF1-induced growth at an IC ₅₀ of 0.1 μ M.
In Vivo	Fatostatin hydrobromide (125B11 hydrobromide) (30 mg/kg; 150 mL; i.p.; daily for 28 days) reduces adiposity, ameliorates fatty liver by reducing triglyceride (TG) storage, and lowers hyperglycemia in ob/ob mice^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Four-to-five-week-old homozygous male obese (ob/ob) mice (C57BL/6J) ^[2]
	Dosage:	30 mg/kg; 150 mL
	Administration:	i.p. injection; daily for 28 days
	Result:	Blocked increases in body weight, blood glucose, and hepatic fat accumulation in obese ob/ob mice, even under uncontrolled food intake.

CUSTOMER VALIDATION

- Cell Metab. 2021 Aug 3;33(8):1655-1670.e8.
- Autophagy. 2021 Jul;17(7):1592-1613.
- Cell Death Differ. 2021 Jun;28(6):2001-2018.
- J Exp Clin Cancer Res. 2019 May 29;38(1):228.
- Cell Death Dis. 2021 May 26;12(6):544.

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REFERENCES

- [1]. Choi Y, et al. Identification of bioactive molecules by adipogenesis profiling of organic compounds. J Biol Chem. 2003 Feb 28;278(9):7320-4.
- [2]. Kamisuki S, et al. A small molecule that blocks fat synthesis by inhibiting the activation of SREBP. Chem Biol. 2009 Aug 28;16(8):882-92.

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

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