Product Data Sheet

Product Name: PF 429242
Cat. No.: GC15234

Chemical Properties

Cas. No.	947303-87-9		
Chemical Name	(R)-4-((diethylamino)methyl)-N-(2-methoxyphenethyl)-N-(pyrrolidin-3-yl)benzamide		
SMILES	CCN(CC1=CC=C(C(N([C@]2([H])CCNC2)CCC3=CC=CC=C3OC)=O)C=C1)CC		
Formula	$C_{25}H_{35}N_3O_2.2HCl$	M.Wt	482.49
Solubility	<24.12mg/ml in Water; <24.12mg/ml in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PF 429242		

Protocol

Animal experiment:

Mice: To test the in vivo efficacy of PF-429242 in regulating SREBP target genes, male CD1 mice are dosed i.p. with 10 or 30 mg/kg PF-429242 or saline once every 6 over a 24-h period. Mice are euthanized 6 h after the final dose, and liver tissue is collected, frozen rapidly in liquid nitrogen, and stored at -80°C. For RNA isolation, 50 to 100 mg of frozen liver tissue from each sample is homogenized in 1 ml of TRIzol reagent. Total RNA is extracted following the manufacturer's instructions, and the resulting total RNA from each sample underwent DNA-free treatment[1].

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References:

[1]. Hawkins JL, et al. Pharmacologic inhibition of site 1 protease activity inhibits sterol regulatory element-binding protein processing and reduces lipogenic enzyme gene expression and lipid synthesis in cultured cells and experimental animals. J Pharmacol Exp Ther. 2008 Sep;326(3):801-8.
[2]. Uchida L, et al. Suppressive Effects of the Site 1 Protease (S1P) Inhibitor, PF-429242, on Dengue Virus Propagation. Viruses. 2016 Feb 10;8(2). pii: E46. doi: 10.3390/v8020046.
[3]. Urata S, et al. Antiviral activity of a small-molecule inhibitor of arenavirus glycoprotein processing by the cellular site 1 protease. J Virol. 2011 Jan;85(2):795-803.