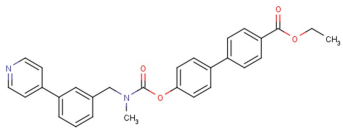
Data Sheet (Cat.No.T17259)

TargetMol
A DRUG SCREENING EXPERT

WWL113

Chemical Properties



CAS No.:	947669-86-5
Formula:	C29H26N2O4
Molecular Weight:	466.53
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	WWL113 is a selective and orally active Ces3 and Ces1f inhibitor (IC50: 120 nM and 100 nM for Ces3 and Ces1f, respectively). WWL113 appears to display excellent selectivity for the 60-kDa serine hydrolase.
Targets(IC_{50})	Ces3: 120 nM Ces1f: 100 nM
In vitro	WWL113 has a partial, statistically significant inhibitory effect on blocking the buildup of PGE2. WWL113 (1 μM) significantly increases UCP1 protein expression in brown adipocytes. WWL113 (10 μM) inhibits mouse recombinant Ces1, Ces1c, and ABHD6 [1][2][3].
In vivo	WWL113 ameliorates obesity-diabetes in mice. WWL113 (30 mg/kg, orally once a day) causes a major improvement of multiple features of metabolic syndrome and ameliorated obesity-diabetes in mice with lowered levels of nonesterified free fatty acids, triglycerides, total cholesterol and fasted glucose as well as enhanced glucose [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.143 mL	10.717 mL	21.435 mL
5 mM	0.429 mL	2.143 mL	4.287 mL
10 mM	0.214 mL	1.072 mL	2.143 mL
50 mM	0.043 mL	0.214 mL	0.429 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

2. Galmozzi, et al. ThermoMouse: an in vivo model to identify modulators of UCP1 expression in brown adipose tissue. Cell Rep. 2014 Dec 11;9(5):1584-1593.

3. Turcotte C, et al. The Endocannabinoid Metabolite Prostaglandin E2 (PGE2)-Glycerol Inhibits Human Neutrophil Functions: Involvement of Its Hydrolysis into PGE2 and EP Receptors. J Immunol. 2017 Apr 15;198(8):3255-3263.

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