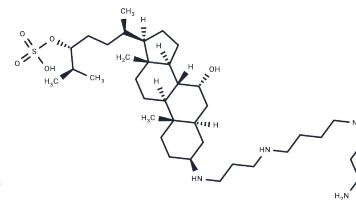


MSI-1436

Chemical Properties

CAS No. : 186139-09-3
 Formula: C37H72N4O5S
 Molecular Weight: 685.06
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	MSI-1436 is a selective, non-competitive the enzyme protein-tyrosine phosphatase 1B (PTB1B)inhibitor(IC50 of appr 1 µM)
Targets(IC50)	Others
In vitro	Trodesquimine significantly enhanced insulin-stimulated tyrosine phosphorylation of insulin receptor (IR) beta and STAT3, direct targets of PTP1B, in HepG2 cells in vitro and/or hypothalamic tissue[1].
In vivo	Trodesquimine (MSI-1436) causes rapid and reversible weight loss in genetic models of obesity.?Trodesquimine suppressed appetite, reduced body weight (BW) in a fat-specific manner, and improved plasma insulin and leptin levels in mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4597 mL	7.2986 mL	14.5973 mL
5 mM	0.2919 mL	1.4597 mL	2.9195 mL
10 mM	0.146 mL	0.7299 mL	1.4597 mL
50 mM	0.0292 mL	0.146 mL	0.2919 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lantz KA, et al. Inhibition of PTP1B by trodesquimine (MSI-1436) causes fat-specific weight loss in diet-induced obese mice. Obesity (Silver Spring). 2010 Aug;18(8):1516-1523.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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