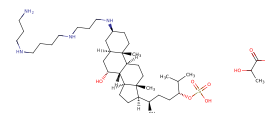


MSI-1436 lactate

Chemical Properties

CAS No. :	1309370-86-2
Formula:	C ₃₇ H ₇₂ N ₄ O ₅ S ₇ /2C ₃ H ₆ O ₃
Molecular Weight:	1000.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	MSI-1436 lactate is a selective, non-competitive the enzyme protein-tyrosine phosphatase 1B (PTB1B)inhibitor(IC ₅₀ of appr 1 μM)
Targets(IC ₅₀)	Others
In vitro	Trodoquimine 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	Trodoquimine (MSI-1436) causes rapid and reversible weight loss in genetic models of obesity. Trodoquimine suppressed appetite, reduced body weight (BW) in a fat-specific manner, and improved plasma insulin and leptin levels in mice[1].

Solubility Information

Solubility	H ₂ O: 33.33 mg/mL (33.32 mM), DMSO: 54 mg/mL (53.99 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9998 mL	4.9992 mL	9.9983 mL
5 mM	0.200 mL	0.9998 mL	1.9997 mL
10 mM	0.100 mL	0.4999 mL	0.9998 mL
50 mM	0.020 mL	0.100 mL	0.200 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 trodoquimine (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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