

Lapaquistat acetate

Chemical Properties

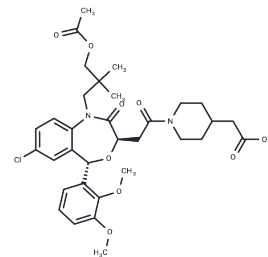
CAS No. : 189060-13-7

Formula: C₃₃H₄₁ClN₂O₉

Molecular Weight: 645.14

Storage: Keep away from moisture, Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lapaquistat acetate (TAK-475) is a squalene synthase inhibitor with potential anti-inflammatory activity. It mitigates statin-induced toxicity in human skeletal muscle cells and protects guinea pigs from simvastatin-induced myotoxicity, useful for research on hypercholesterolemia and HMG-CoA reductase deficiency.
Targets(IC50)	Others, Transferase
In vitro	Lapaquistat acetate (0-1000 nmol/L, 24h) inhibited LPS-stimulated IL-1 β production in MKD-like THP-1 cells. [2]
In vivo	Lapaquistat acetate (100 or 200 mg/kg/ day) for 32 weeks increased collagen concentration and transformed coronary plaque into fibromuscular plaque in male WHHLMI rabbits. [1]

Solubility Information

Solubility	DMSO: 1 mg/mL (1.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5501 mL	7.7503 mL	15.5005 mL
5 mM	0.310 mL	1.5501 mL	3.1001 mL
10 mM	0.155 mL	0.775 mL	1.5501 mL
50 mM	0.031 mL	0.155 mL	0.310 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Shiomi M, et al. Lapaquistat acetate, a squalene synthase inhibitor, changes macrophage/lipid-rich coronary plaques of hypercholesterolaemic rabbits into fibrous lesions. *Br J Pharmacol*. 2008 Jul;154(5):949-57.
- Suzuki N, et al. Anti-inflammatory and cytoprotective effects of a squalene synthase inhibitor, TAK-475 active metabolite-I, in immune cells simulating mevalonate kinase deficiency (MKD)-like condition. *Springerplus*. 2016 Aug 30;5(1):1429.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481