

Golotimod hydrochloride

Chemical Properties

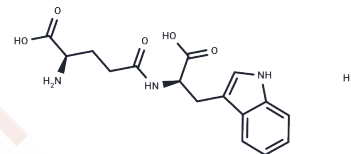
CAS No. : 1029401-59-9

Formula: C₁₆H₂₀ClN₃O₅

Molecular Weight: 369.8

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	Golotimod hydrochloride (SCV 07 hydrochloride) is an immunomodulatory peptide with antibacterial activity that inhibits the homodimerization of STAT3 in the cytoplasm, thereby inhibiting STAT3 signaling. It can be used for studying immune-sensitive diseases and HCV infections.
Targets(IC50)	Antibacterial, STAT
In vitro	Golotimod hydrochloride can stimulate T helper cells to shift to TH1-like immune response. Golotimod hydrochloride can stimulate macrophage function decreased by TB infection and isoniazid treatment, and improve phagocytosis activity of peritoneal macrophages. It can be used as a prospective immunomodulator for the complex treatment of tuberculosis (TB). [1]
In vivo	Oral administration of Golotimod hydrochloride at a dose of 5µg/kg after fasting overnight significantly reduced infectious recurrent lesions in recurrent genital HSV-2 guinea pigs. [2] Golotimod hydrochloride is able to alter the duration and severity of oral mucositis and depends on time and dose.

Solubility Information

Solubility	H ₂ O: 120 mg/mL (324.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7042 mL	13.5208 mL	27.0416 mL
5 mM	0.5408 mL	2.7042 mL	5.4083 mL
10 mM	0.2704 mL	1.3521 mL	2.7042 mL
50 mM	0.0541 mL	0.2704 mL	0.5408 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

Simbirtsev A, et al. Biological Activity of Peptide SCV-07 Against Murine Tuberculosis. *Russ J Immunol.* 2003 Apr;8(1):11-22.

Rose WA 2nd, et al. An immunomodulating dipeptide, SCV-07, is a potential therapeutic for recurrent genital herpes simplex virus type 2 (HSV-2). *Int J Antimicrob Agents.* 2008 Sep;32(3):262-6.

Watkins B, et al. Attenuation of radiation- and chemoradiation-induced mucositis using gamma-D-glutamyl-L-tryptophan (SCV-07). *Oral Dis.* 2010 Oct;16(7):655-60.

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