

Golotimod TFA

Chemical Properties

CAS No. : 2828433-07-2

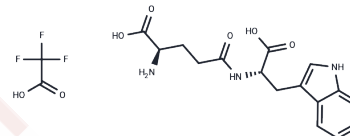
Formula: C₁₈H₂₀F₃N₃O₇

Molecular Weight: 447.36

Store at low temperature

Storage: 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 TFA (SCV 07 TFA) is a dipeptide exhibiting immunomodulatory and antibacterial activity. It reduces recurrent lesions caused by HSV-2, alleviates radiation-induced oral mucositis, and inhibits the homodimerisation of STAT3 molecules in the cytoplasm.
Targets(IC50)	Antibacterial,STAT,HSV
In vitro	Mix 100 µg of Golotimod TFA with 5×10 ⁴ PFU of HSV-2, incubate for 1 hour, and then inoculate onto Vero cells. The standard Utheisa kong plaque titration method was used to quantify infectious viral content. The Results showed that Golotimod TFA exhibited no direct antiviral activity when mixed, added simultaneously, or added 1 hour later, whereas the positive control acyclovir significantly reduced viral content. [1]
In vivo	Golotimod TFA (100 µg/kg, administered consecutively for 5 days) effectively alleviates experimental recurrent genital HSV-2 disease through oral administration. In experiments with female Hartley guinea pigs, oral administration of Golotimod TFA after fasting significantly reduced the incidence and severity of the disease compared to non-fasting conditions [1]. Golotimod TFA (subcutaneous injection, 100 µg/kg, once or twice daily for 20 consecutive days) reduces the severity and duration of acute and fractionated radiation-induced oral mucositis in male LVG golden Syrian hamsters, while also effectively shortening the course of ulcerative oral mucositis [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2353 mL	11.1767 mL	22.3534 mL
5 mM	0.4471 mL	2.2353 mL	4.4707 mL
10 mM	0.2235 mL	1.1177 mL	2.2353 mL
50 mM	0.0447 mL	0.2235 mL	0.4471 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

- 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.
- Geiger JL, et al. The STAT3 pathway as a therapeutic target in head and neck cancer: Barriers and innovations. *Oral Oncol*. 2016 May;56:84-92.
- 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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