

AMY-101 acetate

Chemical Properties

CAS No. :

Formula: C85H121N23O20S2

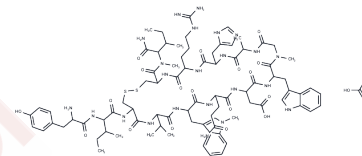
Molecular Weight: 1849.14

Storage:

Keep away from moisture, Keep away from direct sunlight, 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	AMY-101 acetate (Cp40 acetate) is a cyclic peptide, an inhibitor of C3 Complement and an immunomodulator used in the treatment of gingivitis and periodontitis, which significantly reduces inflammation and lowers MMP-8 and MMP-9 levels. AMY-101 acetate also has a palliative effect on COVID-19-induced lung inflammation/injury and SARS-CoV-2-related acute kidney injury in patients with acute respiratory distress syndrome (ARDS).
Targets(IC50)	MMP, Complement System, SARS-CoV
In vitro	AMY-101 acetate (Cp40 acetate), a compstatin-based C3 inhibitor, effectively blocks complement activation in vitro by preventing the cleavage of C3 and downstream generation of inflammatory effectors[1].
In vivo	In a severe COVID-19 patient, intravenous AMY-101 acetate (5 mg/kg/day for 14 days) was well tolerated and led to rapid improvement in inflammation and respiratory function, with no renal or hepatic toxicity observed[1]. In non-human primates with naturally occurring periodontitis, local administration of AMY-101 acetate (0.1 mg/site, every 3 weeks) effectively reduced periodontal inflammation without local irritation. Daily subcutaneous administration (4 mg/kg) provided systemic protection against periodontal tissue destruction[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5408 mL	2.704 mL	5.4079 mL
5 mM	0.1082 mL	0.5408 mL	1.0816 mL
10 mM	0.0541 mL	0.2704 mL	0.5408 mL
50 mM	0.0108 mL	0.0541 mL	0.1082 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

Liu Y, Wang K, Liang X, Li Y, Zhang Y, Zhang C, Wei H, Luo R, Ge S, Xu G. Complement C3 Produced by Macrophages Promotes Renal Fibrosis via IL-17A Secretion. *Front Immunol.* 2018 Oct 22;9:2385.

Kajikawa T, et al. Safety and Efficacy of the Complement Inhibitor AMY-101 in a Natural Model of Periodontitis in Non-human Primates. *Mol Ther Methods Clin Dev.* 2017 Aug 18;6:207-215.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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