

Chemerin-9 (149-157) TFA

Chemical Properties

CAS No. :

Formula: C56H67F3N10O15

Molecular Weight: 1177.18

Keep away from moisture

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	Chemerin-9 (149-157) TFA is a peptide located at positions 149-157 of chemerin-9, retaining most of the activity of the full protein. Chemerin-9 acts as a ChemR23/CMKLR1 agonist, preventing atherosclerosis whilst inhibiting NLRP3 inflammasome activation and promoting A β microglial clearance. It modulates blood pressure and sympathetic nervous system activity via glutamate receptor-mediated ROS production.
Targets(IC50)	Beta Amyloid,NOD,Chemerin Receptor
In vitro	Methods: Chemerin-9 (149-157) TFA (500nM) was used to treat primary microglia stimulated by A β 42 oligomers to investigate the effects of Chemerin-9 (149-157) TFA on cellular phagocytic ability and inflammatory response. Results: Chemerin-9 (149-157) TFA enhanced the phagocytic capacity of microglia toward A β and suppressed NLRP3 inflammasome activation.[1]
In vivo	Methods: Chemerin-9 (149-157) TFA (0.2 mg/kg) was intraperitoneally injected into PDM mice to evaluate the effects of chemerin-9 on blood glucose, insulin resistance (IR), and the expression of GLUT2 and PDX1. Results: Chemerin-9 (149-157) TFA treatment significantly increased serum chemerin levels in PDM mice, upregulated the expression of GLUT2 and PDX1, and improved Vitis vinifera glucose tolerance and IR.[2]

Solubility Information

Solubility	H2O: 8 mg/mL (6.8 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	0.8495 mL	4.2474 mL	8.4949 mL
5 mM	0.1699 mL	0.8495 mL	1.699 mL
10 mM	0.0849 mL	0.4247 mL	0.8495 mL
50 mM	0.017 mL	0.0849 mL	0.1699 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

Zhang J, et al. Chemerin-9 is neuroprotective in APP/PS1 transgenic mice by inhibiting NLRP3 inflammasome and promoting microglial clearance of A β . *J Neuroinflammation*. 2025 Jan 8;22(1):5.

Tu J, et al. Regulatory effect of chemerin and therapeutic efficacy of chemerin 9 in pancreatogenic diabetes mellitus. *Mol Med Rep*. 2020 Mar;21(3):981-988.

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