

LP17(LQVTDSGLYRCVIYHPP) Product Manual

Chemical Properties

Cat.No.: GXP255165

Size: 1mg/5mg/10mg

CAS No.: 887255-16-5

Formula: C89H137N23O25S Molecular

Weight: 1961.24

Appearance: Solid

keep away from moisture, keep away from direct

Storage: sunlight

Powder: -20° C for 3 years | In solvent: -80° C for 1 year

Biological Description

Description	LP17(LQVTDSGLYRCVIYHPP) is a peptide and TREM-1 (Triggering Receptor Expressed on Myeloid cells 1) inhibitor derived from a highly conserved sequence between the extracellular structural domains of mouse and human TREM-1 and TLT-1. LP17 inhibits TREM-1 activation through a decoy receptor LP17 inhibits TREM-1 activation by acting through a decoy receptor mechanism, which has the advantage of penetrating the brain barrier and attenuating neuronal damage and inflammatory responses.
Targets (IC50)	Others
In vitro	In primary rat microglial cells, LP17(LQVTDSGLYRCVIYHPP) (100 nM, 1-hour pretreatment) significantly inhibited hemoglobin-induced inflammation by reducing the expression of TREM-1, TNF- α , IL-1 β , IL-6, and iNOS. It also decreased nitric oxide production and suppressed NF- κ B p65 nuclear translocation, indicating strong anti-inflammatory effects
In vivo	In a rat model of subarachnoid hemorrhage (SAH), intracerebroventricular injection of LP17(LQVTDSGLYRCVIYHPP) (0.5 μ g) significantly suppressed TREM-1 and proinflammatory cytokine expression, reduced neuronal apoptosis, and improved neurological scores, demonstrating potent anti-inflammatory and neuroprotective effects

Solubility Information

Solubility	H2O: 10 mg/mL (5.1 mM),when pH is adjusted to 3 with CH3COOH. Sonication and heating are recommended. DMSO: 15 mg/mL (7.65 mM),when pH is adjusted to 7 with CH3COOH. Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 m	M0.5099 mL	2.5494 mL	5.0988 mL
5 m	M0.102 mL	0.5099 mL	1.0198 mL
10 m	M0.051 mL	0.2549 mL	0.5099 mL
50 m	M0.0102 mL	0.051 mL	0.102 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.

官方网址: www.genesion.com.cn

订货热线: 4006-169-114、020-84224925

Email: whiga22@126.com

