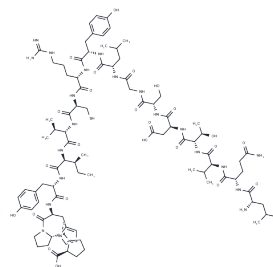


LQVTDGLYRCVIYHPP

Chemical Properties

CAS No. : 887255-16-5
 Formula: C₈₉H₁₃₇N₂₃O₂₅
 Molecular Weight: 1961.24
 Storage: Keep away from moisture, Keep away from direct sunlight
 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	LQVTDGLYRCVIYHPP (LP17) 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 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, LQVTDGLYRCVIYHPP (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 [1].
In vivo	In a rat model of subarachnoid hemorrhage (SAH), intracerebroventricular injection of LQVTDGLYRCVIYHPP (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[1].

Solubility Information

Solubility	H ₂ O: 10 mg/mL (5.1 mM), when pH is adjusted to 3 with CH ₃ COOH. Sonication and heating are recommended. DMSO: 15 mg/mL (7.65 mM), when pH is adjusted to 7 with CH ₃ COOH. Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5099 mL	2.5494 mL	5.0988 mL
5 mM	0.102 mL	0.5099 mL	1.0198 mL
10 mM	0.051 mL	0.2549 mL	0.5099 mL
50 mM	0.0102 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.

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

Xu P, Zhang X, Liu Q, Xie Y, Shi X, Chen J, Li Y, Guo H, Sun R, Hong Y, Liu X, Xu G. Microglial TREM-1 receptor mediates neuroinflammatory injury via interaction with SYK in experimental ischemic stroke. *Cell Death Dis.* 2019 Jul 19;10(8):555.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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