

## Lqvtmsglyrcviihpp TFA

## Chemical Properties

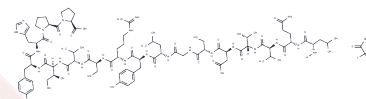
CAS No. :

Formula: C91H138F3N23O27S

Molecular Weight: 2075.27

Storage: Keep away from moisture, 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	LQVTDSGLYRCVIYHPP (LP17) TFA is a TREM-1 (triggering receptor expressed on myeloid cells) inhibitory peptide that significantly reduces ischemic infarction and neuronal damage, with the ability to penetrate the brain to inhibit TREM-1 [1].
Targets(IC50)	Others
In vitro	<b>METHODS:</b> LQVTDSGLYRCVIYHPP (LP17) TFA (1 or 10 $\mu$ M) was used in microglia to investigate the function of TREM-1 in the microglial OGD model by real-time quantitative PCR. <b>RESULTS:</b> LQVTDSGLYRCVIYHPP (LP17) TFA significantly reduced the mRNA levels of proinflammatory cytokines (NLRP3, IL-1 $\beta$ , IL-18, IL-6, CD16, CD32, and iNOS) and chemokines (MCP-1, CXCL-1, and CXCL-2); microglia incubated with LQVTDSGLYRCVIYHPP (LP17) maximally preserved neuronal viability. [1]
In vivo	<b>METHODS:</b> LQVTDSGLYRCVIYHPP (LP17) TFA (1 mg/kg, intranasal) was used to confirm the biological function of TREM-1 in ischemic stroke. <b>RESULTS:</b> LQVTDSGLYRCVIYHPP (LP17) TFA induced a significant decrease in TUNEL-positive cells and FJC-positive neurons. [1]

## Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble) DMSO: 80 mg/mL (38.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (1.59 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.4819 mL	2.4093 mL	4.8187 mL
5 mM	0.0964 mL	0.4819 mL	0.9637 mL
10 mM	0.0482 mL	0.2409 mL	0.4819 mL
50 mM	0.0096 mL	0.0482 mL	0.0964 mL

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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, et al. Microglial TREM-1 receptor mediates neuroinflammatory injury via interaction with SYK in experimental ischemic stroke. *Cell Death Dis.* 2019 Jul 19;10(8):555.

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