

## LCMV GP (61-80)

## Chemical Properties

CAS No. : 232598-19-5

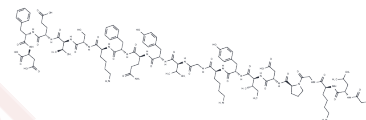
Formula: C108H160N24O31

Molecular Weight: 2290.57

Storage: Keep away from moisture,Keep away from direct sunlight

Store at -20°C

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	LCMV GP (61-80) is a 61-80 amino acid sequence peptide fragment derived from the lymphocytic choroid plexus meningitis virus (LCMV) glycoprotein (GP), which is a specific antigenic determinant that induces CD4 <sup>+</sup> T cell responses.
Targets(IC50)	Anti-infection,Others,Virus Protease
In vitro	Splenocytes from day 8 LCMV-infected mice were stimulated with LCMV GP (61-80) at 37 °C for 4 h. Intracellular cytokine staining showed that the peptide effectively induced IFN-γ production, demonstrating CD4 <sup>+</sup> T cell activation[1].
In vivo	LCMV GP (61-80) acts as an immunodominant CD4 <sup>+</sup> T cell epitope in LCMV Clone 13-infected mice. On day 8 post-infection, the frequency of GP61-80-specific CD4 <sup>+</sup> T cells increased significantly, indicating strong in vivo immunogenicity[1].

## Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.4366 mL	2.1829 mL	4.3657 mL
5 mM	0.0873 mL	0.4366 mL	0.8731 mL
10 mM	0.0437 mL	0.2183 mL	0.4366 mL
50 mM	0.0087 mL	0.0437 mL	0.0873 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

Hilpert C, Sitte S, Matthies A, Voehringer D. Dendritic Cells Are Dispensable for T Cell Priming and Control of Acute Lymphocytic Choriomeningitis Virus Infection. *J Immunol.* 2016 Oct 1;197(7):2780-6.

Andargachew R, et, al. CD4 T Cell Affinity Diversity Is Equally Maintained during Acute and Chronic Infection. *J Immunol.* 2018 Jul 1; 201(1):19-30.

Homann D, et, al. Mapping and restriction of a dominant viral CD4+ T cell core epitope by both MHC class I and MHC class II. *Virology.* 2007 Jun 20; 363(1): 113-23.

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