

## [Leu144, Arg147]-PLP (139-151) TFA

## Chemical Properties

CAS No. :

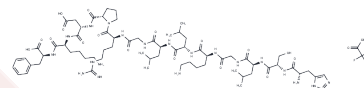
Formula: C67H110N20O17.XCF3COOH

Molecular Weight: 1467.71

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

[Leu144,Arg147]-PLP (139-151) is a mutated fragment of the myelin proteolipid protein (PLP), featuring substitutions of tryptophan to leucine and histidine to arginine at positions 144 and 147, respectively. Immunizing mice with this peptide (50 µg) mixed in complete Freund's adjuvant (CFA) elevates IL-4 levels in the spleen. While it suppresses Th1 cell activation in vitro, it does not do so in vivo; instead, it promotes the development of regulatory T cells. Preimmunization with [Leu144, Arg147]-PLP (139-151) postpones the onset of experimental autoimmune encephalomyelitis (EAE) triggered by encephalitogenic peptides from PLP (178-191), myelin oligodendrocyte glycoprotein (MOG) (92-106), or myelin basic protein (MBP) in mice.

## Solubility Information

## Solubility

DMF: 10 mg/mL (6.81 mM), Sonication is recommended.  
 DMSO: 10 mg/mL (6.81 mM), Sonication is recommended.  
 Ethanol: 2 mg/mL (1.36 mM), Sonication is recommended.  
 PBS pH 7.2: 10 mg/mL (6.81 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6813 mL	3.4067 mL	6.8133 mL
5 mM	0.1363 mL	0.6813 mL	1.3627 mL
10 mM	0.0681 mL	0.3407 mL	0.6813 mL
50 mM	0.0136 mL	0.0681 mL	0.1363 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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