

## EGFRvIII Peptide TFA

## Chemical Properties

CAS No. :

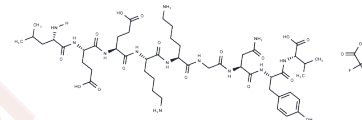
Formula: C48H78N12O16.XCF3COOH

Molecular Weight: 1079.20

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

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EGFRvIII peptide, a synthetic peptide mirroring the EGFRvIII fusion junction—a tumor-specific, perpetually active EGFR variant missing amino acids 6-273 of the wild-type—binds to HLA-A\*0201-positive T2 cells under MHC class I at 25 µg/mL. It enables antigen presentation in dendritic cells from human peripheral blood mononuclear cells (PBMCs), thus activating CD8+ cytotoxic T lymphocytes and prompting IFN-γ production. Administered at 15 µg/animal with the TLR5 agonist flagellin B, EGFRvIII peptide elevates CD8+ T cell numbers, lowers regulatory T cells (Tregs) in the brain, diminishes tumor volume, and extends survival in a GL261 glioblastoma mouse model.

## Solubility Information

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PBS pH 7.2: 10 mg/mL (9.27 mM), Sonication is recommended.  
 DMF: 10 mg/mL (9.27 mM), Sonication is recommended.  
 DMSO: 10 mg/mL (9.27 mM), Sonication is recommended.  
 (< 1 mg/mL refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9266 mL	4.6331 mL	9.2661 mL
5 mM	0.1853 mL	0.9266 mL	1.8532 mL
10 mM	0.0927 mL	0.4633 mL	0.9266 mL
50 mM	0.0185 mL	0.0927 mL	0.1853 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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