

## LyP-1 TFA

## Chemical Properties

CAS No. :

Formula: C38H66F3N17O14S2

Molecular Weight: 1106.16

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	LyP-1 TFA, a cyclic nine-amino-acid peptide, exhibits selective binding to p32 receptors, which are overexpressed in a variety of tumor-associated cells [1].
In vivo	Treatment with LyP-1 TFA for 8 weeks significantly reduces plaque formation and occupancy, accompanied by increased apoptotic rates in macrophages from hypoxic plaques, in comparison to a control peptide [1]. Additionally, 4T1 tumor-bearing BALB/C mice received intradermal injections of Cy5.5-labeled LyP-1 at 0.8 nmol into the forelimb proximal to the tumor at days 3, 7, 14, and 21 post-tumor cell inoculation. Fluorescence intensities were 1.02, 1.63, 2.04, and 4.52 times higher than the contralateral lymph nodes (LNs) at corresponding time points, with values of 0.024, 0.038, 0.048, and $0.106 \times 10^6$ photons/cm <sup>2</sup> /sec. Cy5.5-LyP-1 prominently stained LNs and showed co-localization with lymphatic vessel endothelial hyaluronan receptor-1 (LYVE-1), indicating the lymphatic specificity of the peptide [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.904 mL	4.5201 mL	9.0403 mL
5 mM	0.1808 mL	0.904 mL	1.8081 mL
10 mM	0.0904 mL	0.452 mL	0.904 mL
50 mM	0.0181 mL	0.0904 mL	0.1808 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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481