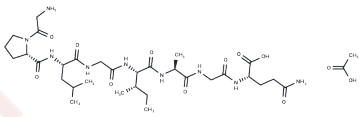
Data Sheet (Cat.No.TP1535L)

TargetMol

GPLGIAGQ acetate

Chemical Properties



CAS No. :

Formula: C33H57N9O12

Molecular Weight: 771.86

Storage: Keep away from moisture
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	GPLGIAGQ acetate is a MMP2-cleavable polypeptide. GPLGIAGQ acetate can be used as a stimulus-sensitive linker in both liposomal and micellar nanocarriers to synthesis unique MMP2-targeted photosensitizer in photodynamic therapy.
Targets(IC50)	MMP,Photosensitizer
In vitro	GPLGIAGQ acetate triggers PEG deshielding of liposomal carriers and enhances cellular internalization[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2956 mL	6.4779 mL	12.9557 mL
5 mM	0.2591 mL	1.2956 mL	2.5911 mL
10 mM	0.1296 mL	0.6478 mL	1.2956 mL
50 mM	0.0259 mL	0.1296 mL	0.2591 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.

Reference

Zhu L, et al. Matrix metalloproteinase 2-sensitive multifunctional polymeric micelles for tumor-specific co-delivery of siRNA and hydrophobic drugs. Biomaterials. 2014 Apr;35(13):4213-22.

Liu FH, et al. Enzyme-sensitive cytotoxic peptide-dendrimer conjugates enhance cell apoptosis and deep tumor penetration. Biomater Sci. 2018 Feb 27;6(3):604-613.

Hou W, et al. MMP2-Targeting and Redox-Responsive PEGylated Chlorin e6 Nanoparticles for Cancer Near-Infrared Imaging and Photodynamic Therapy. ACS Appl Mater Interfaces. 2016 Jan 20;8(2):1447-57.

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