

Product Data Sheet

Product Name: GPLGIAGQ TFA

Cat. No.: GC39640

Chemical Properties

Cas. No.

Formula $C_{33}H_{54}F_3N_9O_{12}$

M.Wt 825.83

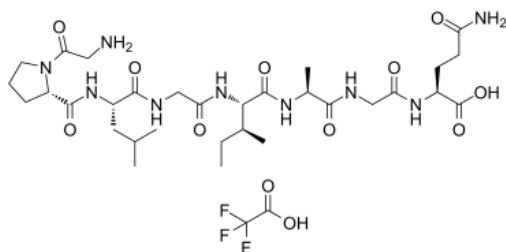
Solubility Soluble in DMSO

Storage Store at -20°C, Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

GPLGIAGQ TFA, a MMP2-cleavable polypeptide, is used as a stimulus-sensitive linker in both liposomal and micellar nanocarriers for MMP2-triggered tumor targeting. GPLGIAGQ TFA can be used to synthesis unique MMP2-targeted photosensitizer in photodynamic therapy (PDT)[1][2][3].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. 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. [2]. 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. [3]. 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.

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