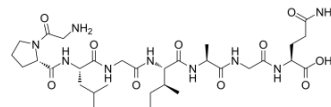


GPLGIAGQ

Cat. No.:	HY-P2213
CAS No.:	109053-09-0
Molecular Formula:	C ₃₁ H ₅₃ N ₉ O ₁₀
Molecular Weight:	711.81
Sequence Shortening:	GPLGIAGQ
Target:	MMP; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	GPLGIAGQ, a MMP2-cleavable polypeptide, is used as a stimulus-sensitive linker in both liposomal and micellar nanocarriers for MMP2-triggered tumor targeting. GPLGIAGQ can be used to synthesis unique MMP2-targeted photosensitizer in photodynamic therapy (PDT) ^{[1][2][3]} .
IC ₅₀ & Target	MMP2 ^[1] .
In Vitro	GPLGIAGQ is used to trigger PEG deshielding of liposomal carriers, resulting in enhanced cellular internalization ^[3] .

REFERENCES

- [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.

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

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