

pH-Low Insertion Peptide

Cat. No.:	HY-P4116
CAS No.:	2293160-09-3
Molecular Formula:	C ₁₈₉ H ₂₈ N ₄ O ₅₅ S
Molecular Weight:	4054.56
Sequence:	Ala-Cys-Glu-Gln-Asn-Pro-Ile-Tyr-Trp-Ala-Arg-Tyr-Ala-Asp-Trp-Leu-Phe-Thr-Thr-Pro-Leu-Leu-Leu-Leu-Asp-Leu-Ala-Leu-Leu-Val-Asp-Ala-Asp-Glu-Thr ACEQNPIYWARYADWLFITPLLLLDLALLVDADET
Sequence Shortening:	ACEQNPIYWARYADWLFITPLLLLDLALLVDADET
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (24.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.2466 mL	1.2332 mL	2.4664 mL
	5 mM	0.0493 mL	0.2466 mL	0.4933 mL
	10 mM	0.0247 mL	0.1233 mL	0.2466 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

pH-Low Insertion Peptide (pHLIP) used as a specific ligand to target the tumor acidic microenvironment for tumors at early and metastatic stages^[1].

REFERENCES

[1]. Yushuang Wei, et al. pH-responsive pHLIP (pH low insertion peptide) nanoclusters of superparamagnetic iron oxide nanoparticles as a tumor-selective MRI contrast agent. Acta Biomater. 2017 Jun;55:194-203.

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

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