

HBpep-SA

Cat. No.:	HY-P6020
Molecular Formula:	C ₁₄₅ H ₁₈₇ N ₃₉ O ₃₇ S ₂
Molecular Weight:	3132.41
Sequence:	Gly-His-Gly-Val-Tyr-Gly-His-Gly-Val-Tyr-Gly-His-Gly-Pro-Tyr-{Lys(NHS-SS-Ac)}-Gly-His-Gly-Pro-Tyr-Gly-His-Gly-Leu-Tyr-Trp
Sequence Shortening:	GHGVYGHGVYGHGPY-{Lys(NHS-SS-Ac)}-GHGPYGHGLYW
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

HBpep-SA is a cell membrane-permeable peptide condensate that phase separates to form stable droplets at pH values below 6.5. HBpep-SA is able to directly and efficiently deliver a variety of macromolecules, ranging from therapeutic peptides as small as 726 Da to large enzymes as large as 430 kDa, and the loaded condensates remain stable under near-physiological and serum conditions until internalized by cells. HBpep-SA can be used for intracellular delivery of large numbers of macromolecules and as a vector for mRNA-based vaccines^[1].

REFERENCES

[1]. Sun Y, et al. Phase-separating peptides for direct cytosolic delivery and redox-activated release of macromolecular therapeutics. Nat Chem. 2022 Mar;14(3):274-283.

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

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