

## HBpep-SA TFA

Cat. No.:	HY-P6020A
Molecular Formula:	C <sub>145</sub> H <sub>187</sub> N <sub>39</sub> O <sub>37</sub> S <sub>2</sub> ·xC <sub>2</sub> H <sub>3</sub> F <sub>3</sub> O <sub>2</sub>
Sequence:	Gly-His-Gly-Val-Tyr-Gly-His-Gly-Val-Tyr-Gly-His-Gly-Pro-Tyr-{Lys(NHS-SS-Ac)}-Gly-His-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.

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (Need ultrasonic)
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### 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 <sup>[1]</sup> .
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### 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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