

Product Data Sheet

Product Name: HBpep-SA TFA

Cat. No.: GC72313

Chemical Properties

Cas. No.

Formula $C_{145}H_{187}N_{39}O_{37}S_2 \cdot xC_2HF_3O_2$ M.Wt 3132.41 (free base)

Solubility H_2O : 100 mg/mL (Need ultrasonic) Storage 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

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 (TFA salt)

Background

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.

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

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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.

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