Product Data Sheet

Product Name: HBpep-SA acetate
Cat. No.: GC74420

Chemical Properties

Cas. No.

Formula	$C_{145}H_{187}N_{39}O_{37}S_2.xC_2H_4O_2$	M.Wt	3132.41 (free base)
Solubility	H_2O : ≥ 100 mg/mL	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 (acetate salt)

Background

HBpep-SA acetate is a cell membrane-permeable peptide condensate that phase separates to form stable droplets at pH values below 6.5. HBpep-SA acetate 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-psiological and serum conditions until internalized by cells. HBpep-SA acetate can be used for intracellular delivery of large

numbers of macromolecules and as a vector for mRNA-based vaccines.

References:

[1]. Macromolecule Delivery Coacervate