

Product Data Sheet

Product Name: Acetyl Octapeptide-3

Cat. No.: GC45641

Chemical Properties

Cas. No. 868844-74-0

SMILES NC([C@@H](NC([C@@H](NC([C@H](CCCNC(N)=N)NC([C@H](CCCNC(N)=N)NC([C@H](CCC(N)=O)NC([C@@H](NC([C@H](CCC(O)=O)NC([C@H](CCC(O)=O)N(C(C)=O)[H])=O)=O)CCSC)=O)=O)=O)=O)C)=O)CC(O)=O)=O

Formula C₄₁H₇₀N₁₆O₁₆S M.Wt 1075.2

Solubility DMSO: 10mg/mL, PBS (pH 7.2): 10mg/mL Storage Store at -20°C

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 Ac—Glu—Glu—Met—Gln—Arg—Arg—Ala—Asp—NH₂

Background

Acetyl octapeptide-3 is a cosmeceutical peptide.¹ Acetyl octapeptide-3 co-polymerizes with polyoxometalates (PMs) to form a peptide-PM assembly that can adhere to wet solid materials underwater with greater shear strength than fibrin glue.²

[2. Xu, J., Li, X., Li, X., et al. Supramolecular copolymerization of short peptides and polyoxometalates: Toward the fabrication of underwater adhesives. *Biomacromolecules* 18(11), 3524-3530 (2017).

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

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