

Product Data Sheet

Product Name: MAX8 acetate

Cat. No.: GC81877

Chemical Properties

Cas. No.

Formula $C_{106}H_{196}N_{28}O_{23} \cdot xC_2H_4O_2$ M.Wt 2230.86

Solubility H_2O : 2.5 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture and light

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



Background

MAX8 is a peptide made up of 20 residues that can fold and self-assemble under the influence of DMEM, forming a mechanically rigid hydrogel, this allows cells to be evenly immersed in the gel when the gelation is triggered in the presence of cells [1].

References:

[1]. Haines-Butterick L, et al. Controlling hydrogelation kinetics by peptide design for three-dimensional encapsulation and injectable delivery of cells. Proceedings of the National Academy of

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

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- Sciences of the United States of America. 2007 May 08;104(19):7791-6.
- [2]. Lindsey S, et al. Beta Hairpin Peptide Hydrogels as an Injectable Solid Vehicle for Neurotrophic Growth Factor Delivery. *Biomacromolecules*. 2015 Sep 14;16(9):2672-83.
- [3]. Hule RA, et al. Correlations between structure, material properties and bioproperties in self-assembled beta-hairpin peptide hydrogels. *Faraday discussions*. 2008;139:251-64; discussion 309-25, 419-20.
- [4]. Branco MC, et al. Fast dynamics of semiflexible chain networks of self-assembled peptides. *Biomacromolecules*. 2009 Jun 08;10(6):1374-80.
- [5]. Leonard SR, et al. Solid-state NMR evidence for β -hairpin structure within MAX8 designer peptide nanofibers. *Biophysical journal*. 2013 Jul 02;105(1):222-30.
- [6]. Sun JE, et al. Sustained release of active chemotherapeutics from injectable-solid β -hairpin peptide hydrogel. *Biomaterials science*. 2016 May 26;4(5):839-48.

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