Product Data Sheet

Product Name: MAX8 acetate
Cat. No.: GC81877

Chemical Properties

Cas. No.

Formula	$C_{106}H_{196}N_{28}O_{23}.xC_2H_4O_2$	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

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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.

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