Product Data Sheet

Product Name: Hydroxyethyl cellulose (2-Hydroxyethyl cellulose)
Cat. No.: GC30153

Chemical Properties

Cas. No.	9004-62-0		
SMILES	[Cellulose glycol]		
Formula		M.Wt	
Solubility	Water : 9.09 mg/mL (warming and heat to 93°C);DMSO : < 1 mg/mL (insoluble or slightly soluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Hydroxyethyl cellulose is a non-ionic, water soluble, modified cellulose polymer used as a thickening agent for aqueous cosmetic and personal care formulations.

Stabilization of graphene oxide in physiological solution is performed using hydroxyethyl cellulose to make the resultant nanohybrid suitable for targeted drug delivery purposes. Hydroxyethyl cellulose effectively stabilizes graphene oxid in electrolyte solutions and the mechanism of stabilization appears to be depended on hydroxyethyl cellulose content. Hydroxyethyl cellulose content in the nanohybrid plays an important role in final application to make it applicable either as a carrier for controllable drug release or as a folate-targeted drug carrier[1]. Hydroxyethyl cellulose shows superior cryoprotective effects on LDH during freeze thawing, and considerable lyoprotective effects during the freeze drying process. Annealing has limited influence on the stabilizing effect of hydroxyethyl cellulose. The extensive reconstitution times of the hydroxyethyl cellulose lyophilisates could be greatly improved by incorporation of the surfactant Tween 80 into the formulations prior to freeze drying[2].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[1]. Mianehrow H, et al. Graphene-oxide stabilization in electrolyte solutions using hydroxyethyl cellulose for drug delivery application. Int J Pharm. 2015 Apr 30;484(1-2):276-82. [2]. Al-Hussein A, et al. Investigation of the stabilizing effects of hydroxyethyl cellulose on LDH during freeze drying and freeze thawing cycles. Pharm Dev Technol. 2015 Jan;20(1):50-9.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA