Rm 102, Bldg 21, 588 TianXiong Rd
Pudong New Area, Shanghai, 201318, China
Tel: +86 21 5801 0060
www.glyconovo.com Email: info@glyconovo.com

Product Data Sheet

Completely Desulfated Heparin

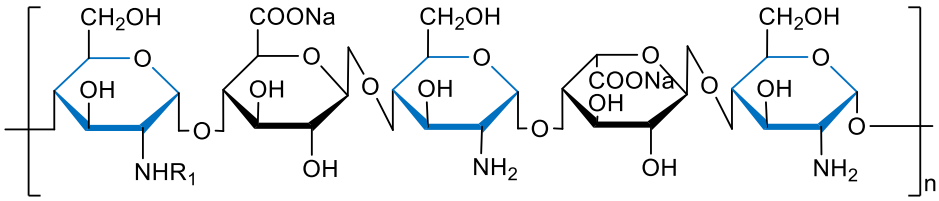
Catalog Number: **C-CDSHEP-2MG** **Quantity: 2 mg**
C-CDSHEP-5MG **Quantity: 5 mg**

Synonyms: None

CAS Number: None listed

Source: Derived from heparin from porcine intestinal mucosa

Product Description: Completely desulfated heparin, a kind of glycosaminoglycan prepared from heparin, can be used as a substrate of *O*/*N*-sulfotransferase for chemical and biological researches. The sulfate groups were removed by chemical methods and less than 2% of sulfate was detected by $BaCl_2$-gelatin assay[1].



R = H or $COCH_3$

Specifications:

Sulfur Content	<2%	$BaCl_2$-gelatin assay
Purity	>98%	High-performance gel permeation chromatography (HPGPC)
Reduction of sulfate	≥90	SAX-HPLC
Uronic acid	48-62%	*m*-hydroxyldiphenyl method[2]
Average Molecular Weight (M_w, Da)	~9,000-12,000	HPGPC-MALLS
Structure Analysis	Pass	^1H- and ^{13}C-NMR spectra
Solubility, 70 mg/mL, H_2O	Clear, Colorless to faint yellow	
Appearance	White to off white powder	

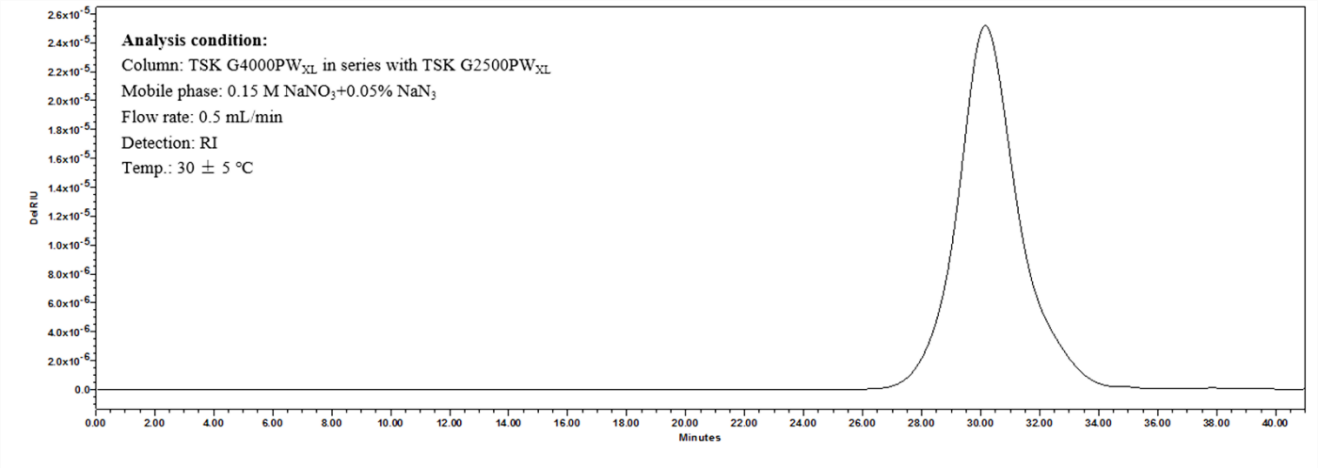
Storage/Stability: Store at room temperature in a dry and dark place until opened. Following reconstitution, aliquot and freeze at -20°C to -80°C for long-term storage or refrigerate at 2°C - 8°C for short-term storage.

Related Products:

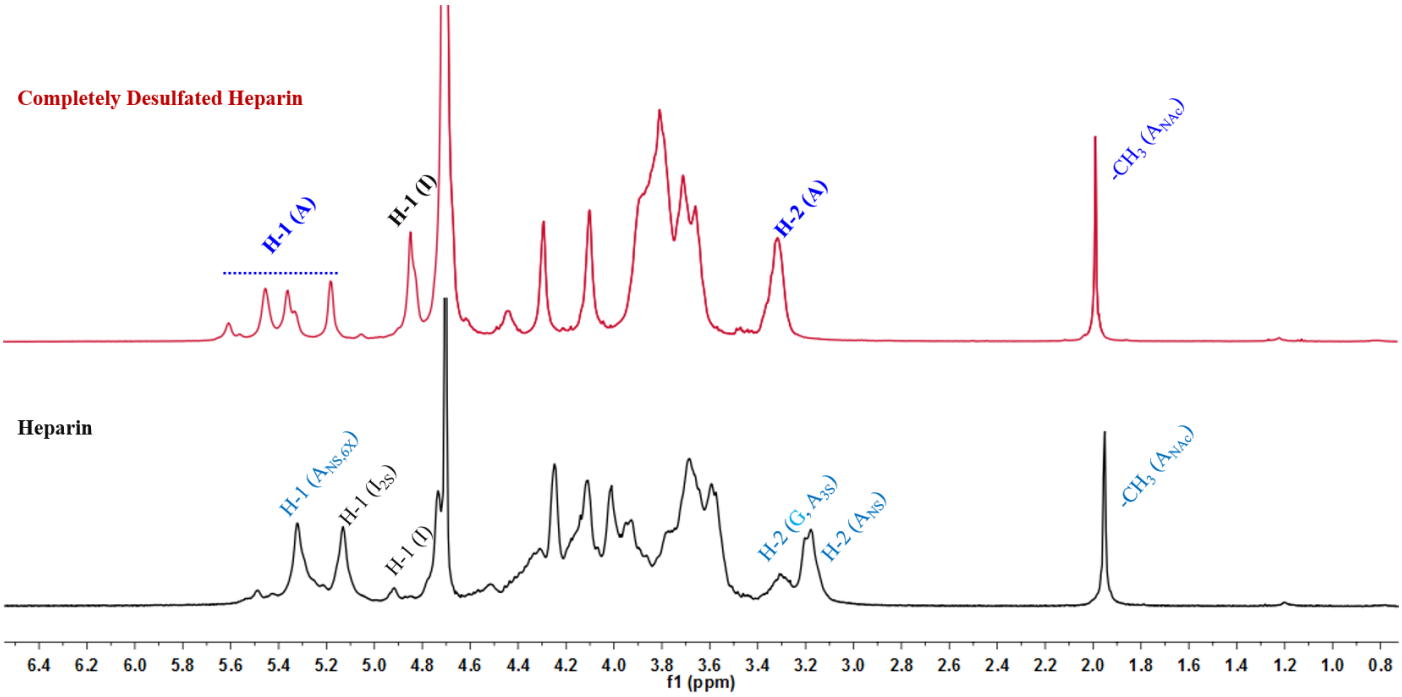
Product	Catalog Number
Heparin Sodium from Porcine Intestinal Mucosa	C-HEPPIM
Heparin Sodium from Bovine Lung	C-HEPBL
2-*O*-Desulfated Heparin	C-2ODSHEP
6-*O*-Desulfated Heparin	C-6ODSHEP
N-Desulfated Heparin	C-NDSHEP
Completely Desulfated re *N*-Sulfated Heparin	C-CDSRNSHEP

Rm 102, Bldg 21, 588 TianXiong Rd
Pudong New Area, Shanghai, 201318, China
Tel: +86 21 5801 0060
www.glyconovo.com Email: info@glyconovo.com

1 The purity analysis of completely desulfated heparin by HPGPC

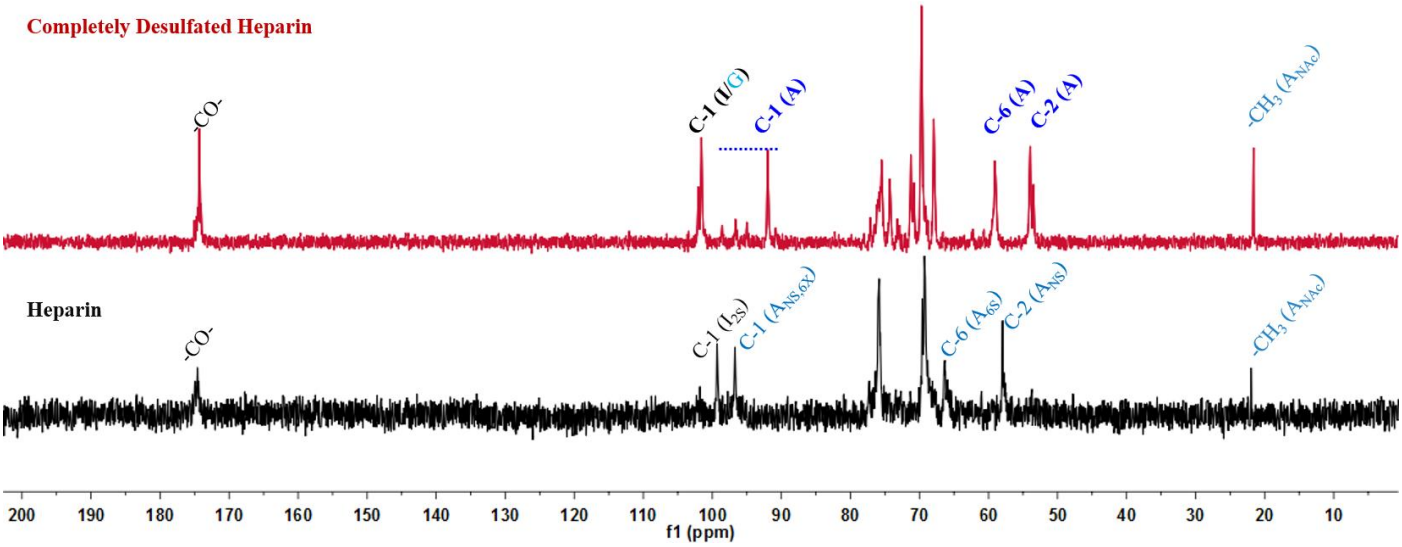


2 The ^{1}H-NMR spectrum of completely desulfated heparin[3]

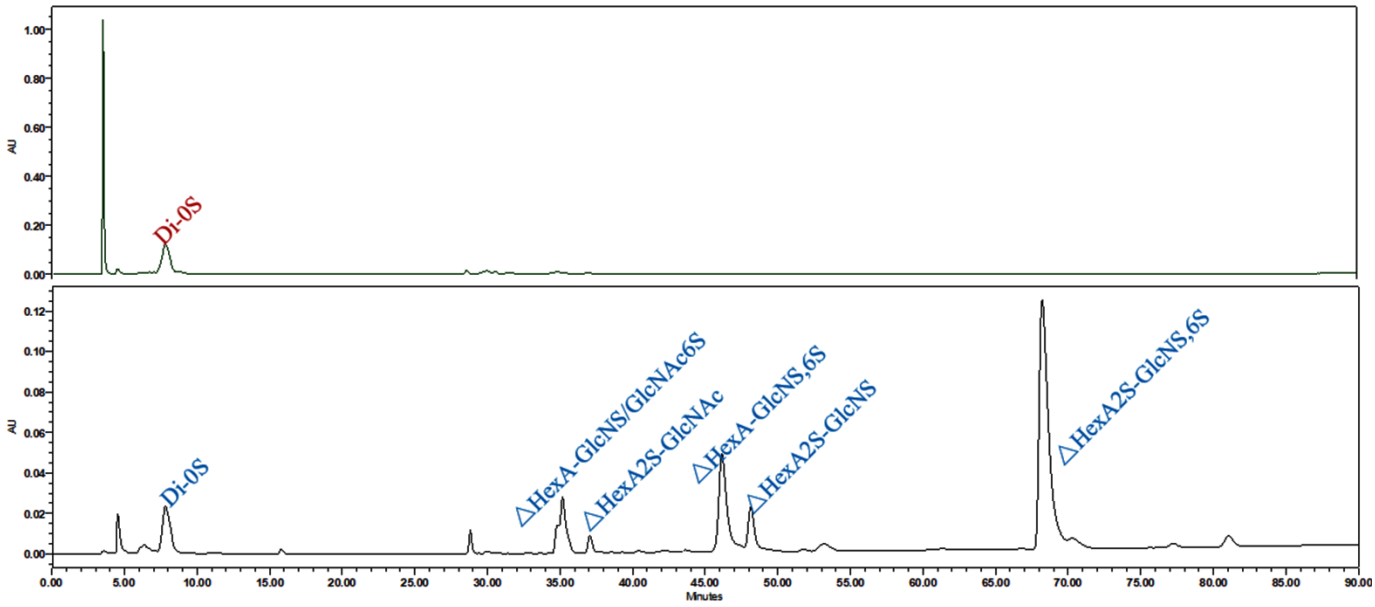


Rm 102, Bldg 21, 588 TianXiong Rd
Pudong New Area, Shanghai, 201318, China
Tel: +86 21 5801 0060
www.glyconovo.com Email: info@glyconovo.com

3 The ^{13}C-NMR spectrum of completely desulfated heparin[4]



4 Unsaturated disaccharide analysis by SAX-HPLC



References:

1. Dodgson, K.S. and R.G. Price. *Biochem J*. **84**(1): p. 106(1962).
2. Blumenkrantz, N. and G. Asboehansen. *Analytical Biochemistry*. **54**(2): p. 484(1973).
3. Guerrini, M., A. Bisio, and G. Torri. *Seminars in Thrombosis & Hemostasis*. **27**(5): p. 473(2001).
4. Yates, E.A., *et al. Carbohydrate Research*. **294**(294): p. 15(1996).