

Heparin Sodium from Porcine Intestinal Mucosa

Catalog Number: C-HEPPIM-100MG
 C-HEPPIM-250MG

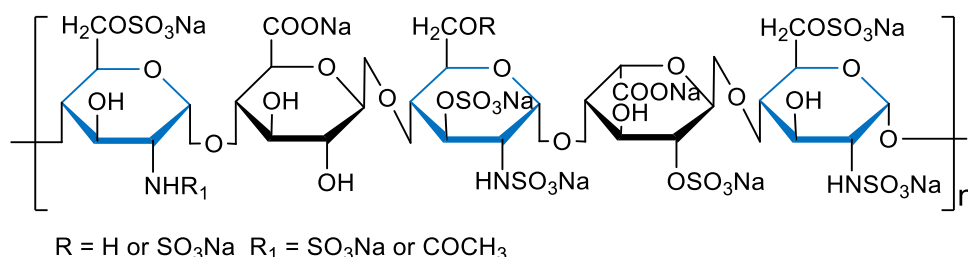
Quantity: 100 mg
 Quantity: 250 mg

Synonyms: Unfractionated heparin, Sodium heparin, Heparin sodium

CAS Number: 9041-08-1

Source: Porcine intestinal mucosa

Product Description: Heparin sodium is a kind of natural anticoagulant obtained from porcine intestinal mucosa widely used for biochemical and biological researches. Heparin is highly related to glycosaminoglycan comprised of disaccharide repeating units, which are D-glucosamine (GlcN)/L-Iduronic acid (IdoA) and GlcN/D-glucuronic acid (GlcA). These residues can be sulfated at different positions. Heparin can bind to various cytokines and growth factors to exert its biological functions¹⁻³.



Specifications:

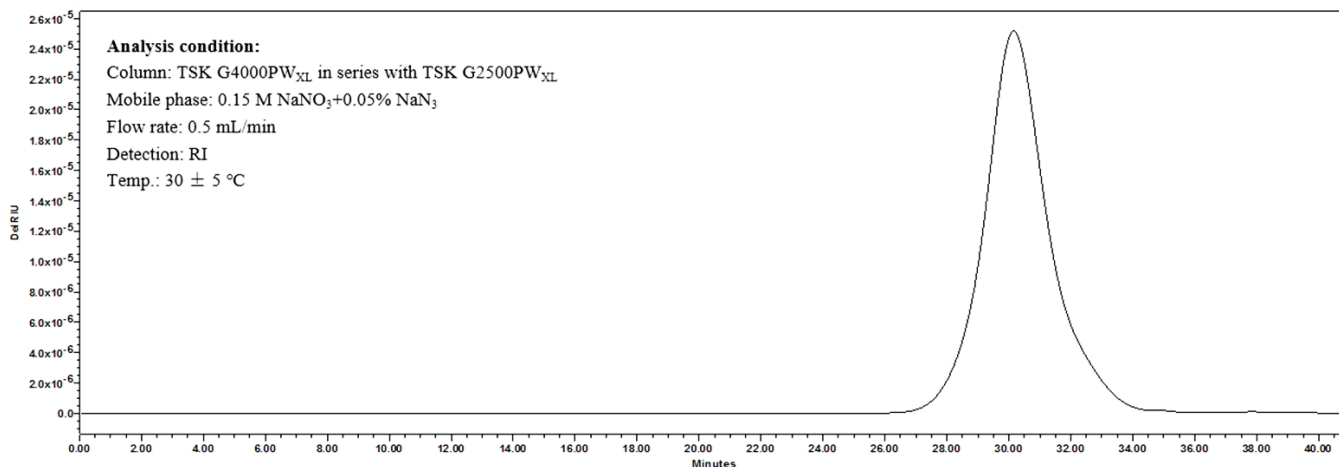
Sulfur content	11-14%	BaCl ₂ -gelatin assay ⁴
Purity	>98%	High-performance gel permeation chromatography (HPGPC)
Uronic acid	23-29%	<i>m</i> -hydroxyl diphenyl method ⁵
Average Molecular Weight (M _w , Da)	~11,000-16,000	HPGPC-MALLS
Structure Analysis	Pass	¹ H- and ¹³ C-NMR spectra
Solubility, 50 mg/mL, H ₂ O	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.

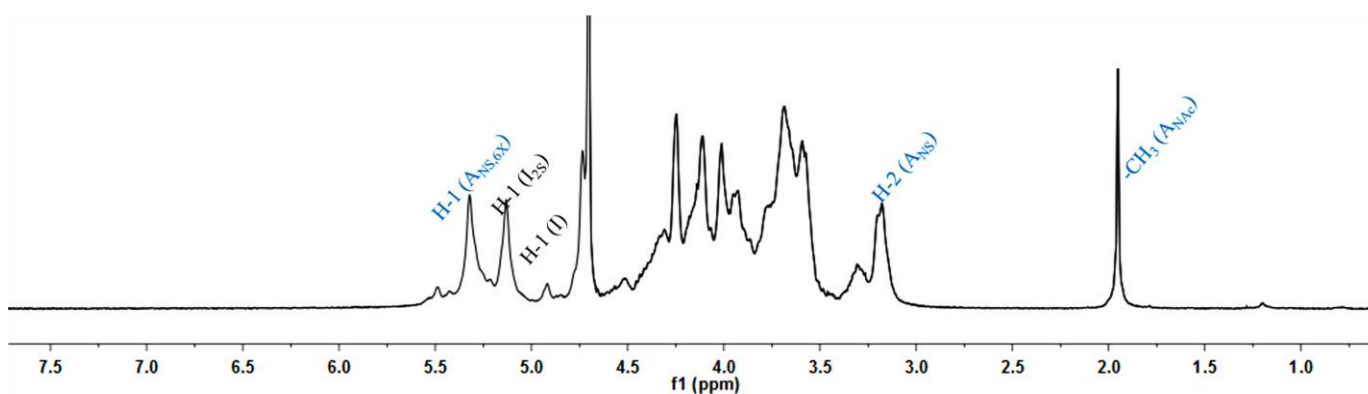
Related Products:

Product	Catalog Number
Heparin Sodium from Bovine Lung	C-HEPBL
Completely Desulfated Heparin	C-CDSHEP
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

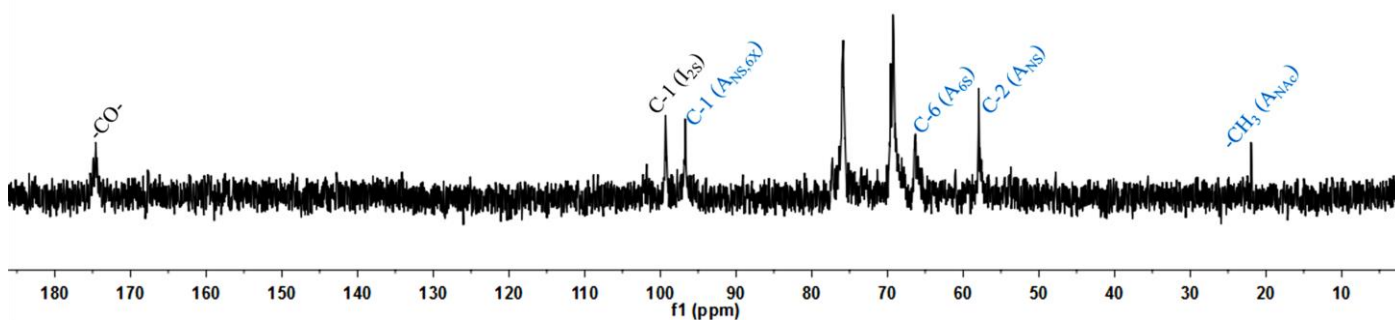
1. The purity analysis of heparin sodium from porcine intestinal mucosa



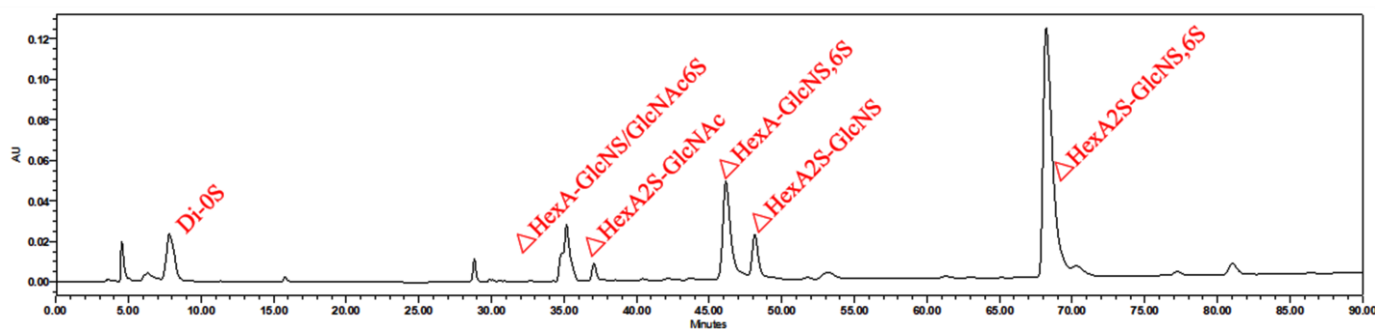
2. The ¹H-NMR spectrum of heparin sodium from porcine intestinal mucosa⁶



3. The ¹³C-NMR spectrum of heparin sodium from porcine intestinal mucosa⁷



4. Unsaturated disaccharide analysis by SAX-HPLC





References:

1. Gordon, M.Y., *et al.* *Nature*. **326**(6111): p. 403-5(1987).
2. Roberts, R., *et al.* *Nature*. **332**(6162): p. 376-8(1988).
3. Lyon, M., *et al.* *J Biol Chem*. **269**(15): p. 11216-23(1994).
4. Dodgson, K.S. and R.G. Price. *Biochem J*. **84**(1): p. 106(1962).
5. Blumenkrantz, N. and G. Asboehansen. *Analytical Biochemistry*. **54**(2): p. 484(1973).
6. Guerrini, M., A. Bisio, and G. Torri. *Seminars in Thrombosis & Hemostasis*. **27**(5): p. 473(2001).
7. Yates, E.A., *et al.* *Carbohydrate Research*. **294**(294): p. 15(1996).