

6-O-Desulfated Heparin

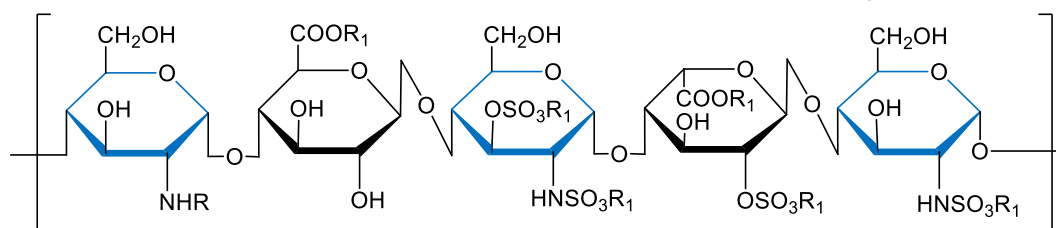
Catalog Number: C-6ODSHEP -2MG **Quantity:** 2 mg
 C-6ODSHEP -5MG **Quantity:** 5 mg

Synonyms: None

CAS Number: None listed

Source: Derived from heparin from porcine intestinal mucosa

Product Description: 6-O-desulfated heparin, a kind of glycosaminoglycan site-selectively desulfated from heparin, could be used as a substrate of 6-O-sulfotransferase for chemical or biological researches.



R = SO₃R₁ or COCH₃ R₁ = Na_(main) or Py

Specifications:

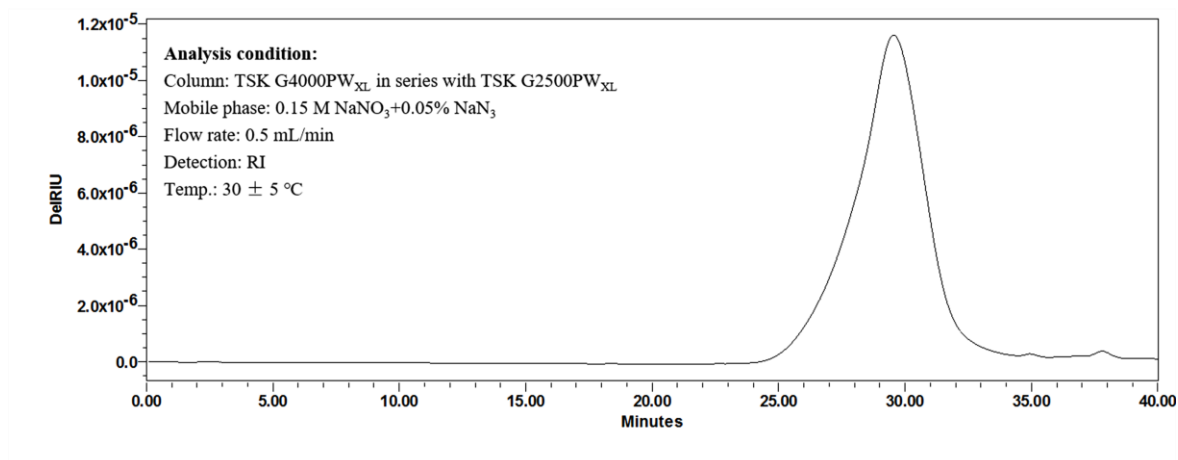
Sulfur content	7-9%	BaCl ₂ -gelatin assay ¹
Reduction of 6-O-sulfate	80%	SAX-HPLC
Purity	>97%	High-performance gel permeation chromatography (HPGPC)
Uronic acid	34-40%	<i>m</i> -hydroxydiphenyl method ²
Average Molecular Weight (M _w , Da)	~10,000-14,000	HPGPC-MALLS
Structure Analysis	Pass	¹ H- and ¹³ 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.

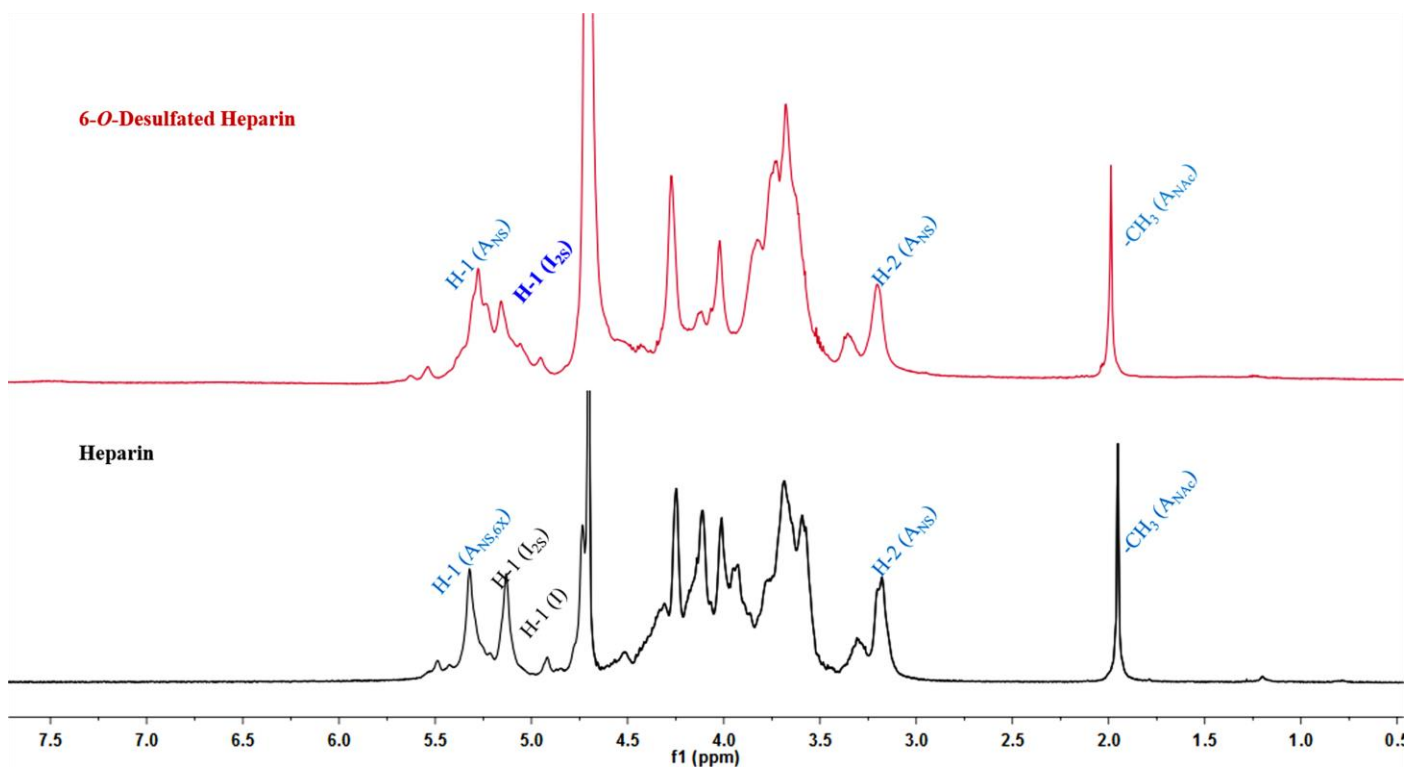
Related Products:

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

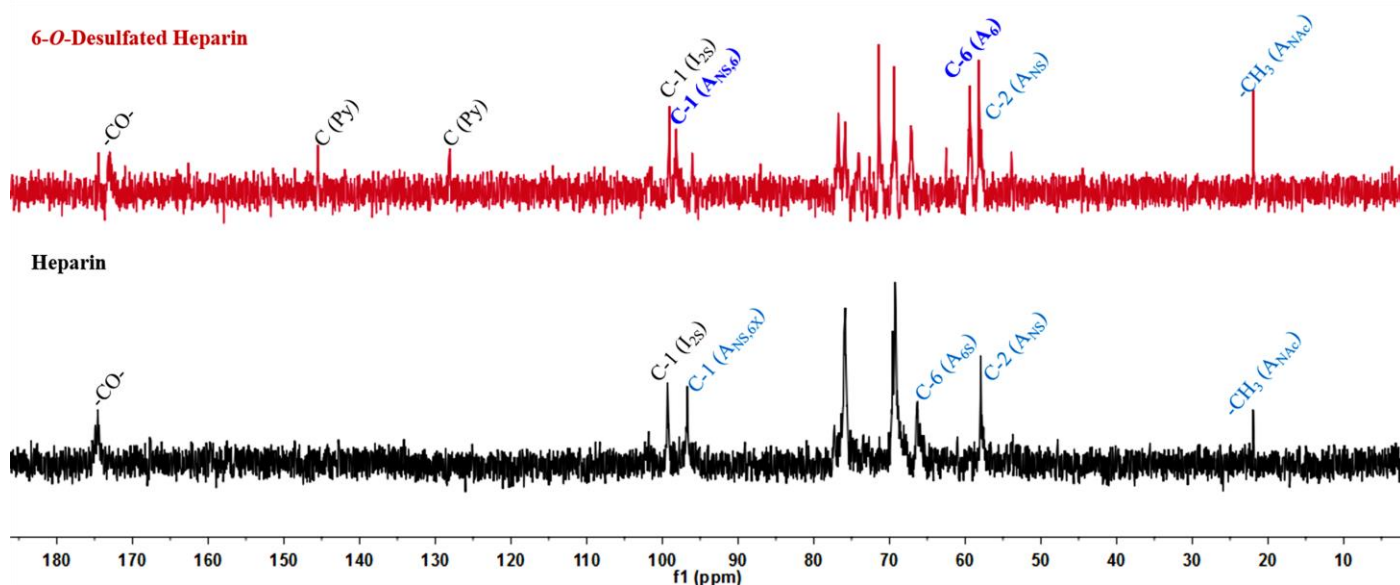
1. The purity analysis of 6-O-desulfated heparin by HPGPC



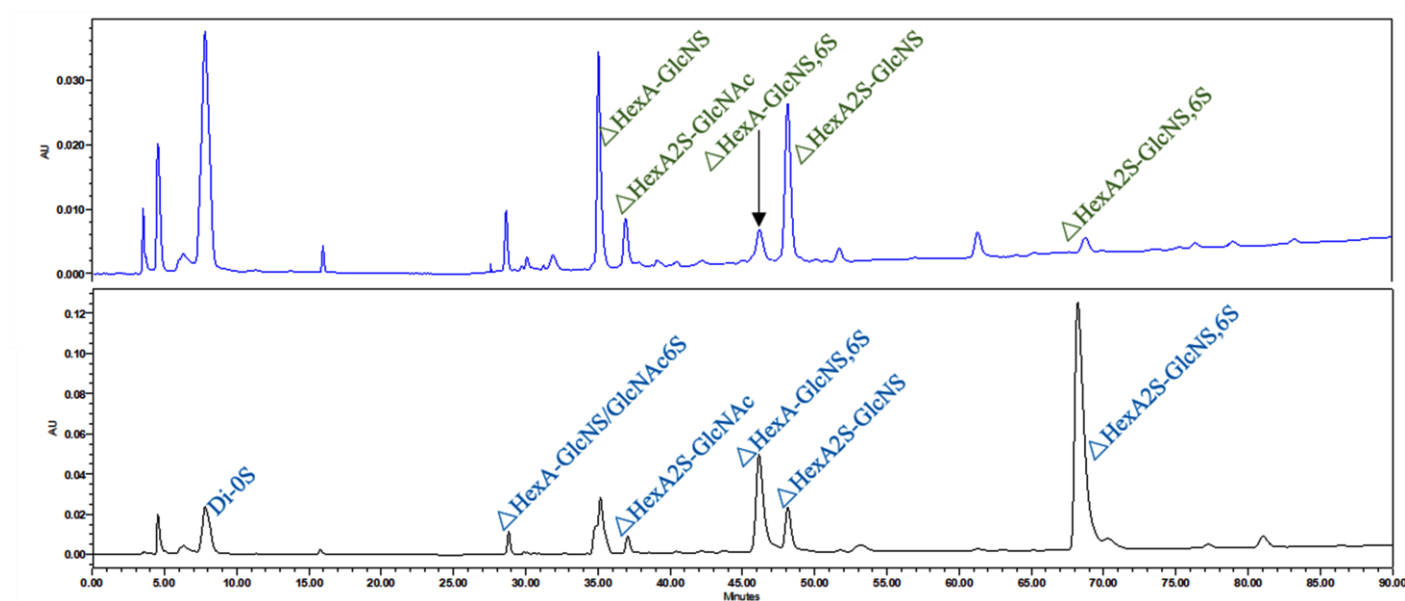
2. The ¹H-NMR spectrum of 6-O-desulfated heparin³



3. The ^{13}C -NMR spectrum of 6-*O*-desulfated heparin⁴



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).