Product Data Sheet

Proteins



Heparinase III Protein, P. heparinus (His)

Cat. No.: HY-P79211

Synonyms: Heparin-sulfate lyase; hepC; Heparin-sulfate eliminase; Heparinase III; HepIII; Heparitin-sulfate

Species: Others Source: E. coli

Accession: AAB18278 (Q25-P659)

Gene ID: 8254931

Molecular Weight: Approximately 74 kDa

PROPERTIES

	-			
AA Sequence	Q S S S I T R K D F	DHINLEYSGL	EKVNKAVAAG	NYDDAAKALL
	AYYREKSKAR	EPDFSNAEKP	ADIRQPIDKV	TREMADKALV
	HQFQPHKGYG	YFDYGKDINW	QMWPVKDNEV	RWQLHRVKWW
	QAMALVYHAT	GDEKYAREWV	YQYSDWARKN	P L G L S Q D N D K
	FVWRPLEVSD	RVQSLPPTFS	LFVNSPAFTP	AFLMEFLNSY
	HQQADYLSTH	YAEQGNHRLF	EAQRNLFAGV	SFPEFKDSPR
	WRQTGISVLN	TEIKKQVYAD	GMQFELSPIY	HVAAIDIFLK
	AYGSAKRVNL	EKEFPQSYVQ	TVENMIMALI	SISLPDYNTP
	MFGDSWITDK	NFRMAQFASW	ARVFPANQAI	KYFATDGKQG
	KAPNFLSKAL	SNAGFYTFRS	GWDKNATVMV	LKASPPGEFH
	AQPDNGTFEL	FIKGRNFTPD	AGVFVYSGDE	AIMKLRNWYR
	QTRIHSTLTL	DNQNMVITKA	RQNKWETGNN	LDVLTYTNPS
	YPNLDHQRSV	LFINKKYFLV	IDRAIGEATG	NLGVHWQLKE
	DSNPVFDKTK	NRVYTTYRDG	NNLMIQSLNA	DRTSLNEEEG
	KVSYVYNKEL	KRPAFVFEKP	KKNAGTQNFV	SIVYPYDGQK
	APEISIRENK	GNDFEKGKLN	LTLTINGKQQ	LVLVP
Biological Activity	Measured by its ability to I	iharata oligosaccharidas fro	om hanarin. Which can he me	pasured by absorbance at 222 nm. The
Biological Activity	Measured by its ability to liberate oligosaccharides from heparin. Which can be measured by absorbance at 232 nm. The specific activity is 432.279935 pmol/min/µg, as measured under the described conditions.			
	specific detivity is 132.213.	σοσ ριποι/ ππη μg, ασ πιεασα	rea under the described cor	iditions.
Appearance	Solution.			
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris, 300 mM NaCl, pH 7.4, 20% Glycerol.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	N/A.			
Storage & Stability	y Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.			

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Shipping

Shipping with dry ice

DESCRIPTION

Background

Heparinase III is the unique member of the heparinase family of heparin-degrading lyases that recognizes the ubiquitous cell-surface heparan sulfate proteoglycans as its primary substrate. Heparinase III functions in cleaving metazoan heparan sulfate and providing carbon, nitrogen and sulfate sources for microorganisms. Heparinase III specifically cleaves heparan sulfate-rich regions of acidic polysaccharides. It acts primarily at the glycosidic linkage between N-sulfated or N-acetylated glucosamine (GlcNS or GlcNAc) and glucuronic acid (GlcA) as primary sites on the condition that the C2 GlcA is not sulfated. It can limit proliferation by affecting heparan sulfate proteoglycan binding growth factors following arterial injury. Furthermore, Heparinase III is cardioprotective in a dose-dependent manner, preserves endothelial function and attenuates PMN adherence to the coronary vascular endothelium[1][2][3][4].

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

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