

MASP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7444
Synonyms:	rHuMannan-binding lectin serine protease 1, His; Complement MASP3; MASP-1
Species:	Human
Source:	HEK293
Accession:	P48740-2 (H20-R728)
Gene ID:	5648
Molecular Weight:	Approximately 120.0 kDa

PROPERTIES

AA Sequence

HTVELNNMFG	QIQSPGYPDS	YPSDSEVTWN	ITVPDGFRIK
LYFMHFNLES	SYLCEYDYVK	VETEDQVLAT	FCGRETTDTE
QTPGQEVVLS	PGSFMSITFR	SDFSNEERFT	GFD AHYMAVD
VDECKEREDE	ELSCDHYCHN	YIGGYCSCR	FGYILHTDNR
TCRVECSNDL	FTQRTGVITS	PDFPNYPKS	SECLYTI ELE
EGFMVNLQFE	DIFDIEDHPE	VPCPYDYIKI	KVGPVKVLGPF
CGEKAPEPIS	TQSHSVLILF	HSDNSGENRG	WRLSYRAAGN
ECPELQPPVH	GKIEPSQAKY	FFKDQVLVSC	DTGYKVLKDN
VEMDTFQIEC	LKDGTWSNKI	PTCKIVDCRA	PGELEHGLIT
FSTRNNLTTY	KSEIKYSCQE	PYYKMLNNT	GIYTCSAQGV
WMNKVLGRSL	PTCLPECGQP	SRSLPSLVKR	IIGGRNAEPG
LFPWQALIVV	EDTSRVPNDK	WFGSGALLSA	SWILTAHV L
RSQRRDTTVI	PVSKEHVTVY	LGLHDVRDKS	GAVNSSAARV
VLHPDFNIQN	YNHDIALVQL	QEPVPLGPHV	MPVCLPRLEP
EGPAPHMLGL	VAGWGISNP N	VTVDEIISG	TRTLS DVLQY
VKLPVVP HAE	CKTSYESRSG	NYSVTENMFC	AGYYEGGKDT
CLGDSGGAFV	IFDDL SQRWV	VQGLVSWGGP	E ECGSKQVYG
VYTKVSNYVD	WVWEQMGLPQ	SVVEPQVERH	H HHHH

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 200 mM NaCl, 10% Glycerol, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

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.

Shipping

Shipping with dry ice.

DESCRIPTION

Background

Mannan-binding lectin (MBL)-associated serine proteases (MASP-1, -2, and -3) are homologous modular proteases that each associate with MBL and L- and H-ficolins, which are oligomeric serum lectins involved in innate immunity. MASP-1 is a serine protease associated with humoral pattern-recognition molecules and is an abundant component of the lectin pathway of complement. MASP-1 can autoactivate^{[1][2]}.

REFERENCES

- [1]. Thiel S, et al. Mannan-binding lectin (MBL)-associated serine protease-1 (MASP-1), a serine protease associated with humoral pattern-recognition molecules: normal and acute-phase levels in serum and stoichiometry of lectin pathway components. *Clin Exp Immunol*. 2012 Jul;169(1):38-48.
- [2]. Dobó J, et al. MASP-1, a promiscuous complement protease: structure of its catalytic region reveals the basis of its broad specificity. *J Immunol*. 2009 Jul 15;183(2):1207-14.
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Caution: Product has not been fully validated for medical applications. For research use only.

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