

Recombinant Human MASP1 Protein (His20-Pro434), N-His tagged

Cat. No. MASP1-3744H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MASP1 (His20-Pro434) fused with the N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	His20-Pro434
Description	This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.
Form	Lyophilized powder/frozen liquid
Molecular Mass	49.77 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MASP1 MBL associated serine protease 1 [Homo sapiens (human)]
Official Symbol	MASP1
Synonyms	MASP1; MBL associated serine protease 1; 3MC1; MAP1; MASP; RaRF; CRARF; MAP-1; MASP3; Map44; PRSS5; CRARF1; MASP-3; mannan-binding lectin serine protease 1; C4/C2 activating component of Ra-reactive factor; Ra-reactive factor serine protease p100; complement factor MASP-3; complement-activating component of Ra-reactive factor; mannan binding lectin serine peptidase 1; mannose-associated serine protease 1; mannose-binding lectin-associated serine protease 1; mannose-binding protein-associated serine protease; serine protease 5; EC 3.4.21.-
Gene ID	5648
mRNA Refseq	NM_139125

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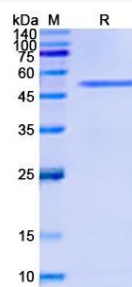
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Protein Refseq NP_624302

MIM 600521

UniProt ID P48740

SDS-PAGE



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