

Product datasheet for PH319651

MASP1 (NM_001879) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MASP1 MS Standard C13 and N15-labeled recombinant protein (NP_001870)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219651
Predicted MW:	79.25 kDa
Protein Sequence:	>RC219651 representing NM_001879 Red=Cloning site Green=Tags(s)

MRWLLLYALCFSLKASAHVELNMMFGQIQSPGYPDSYPSDSEVTWNITVPDGFRIKLYFMHFNLESS
YLCEYDYVKVETEDQVLATFCGRETDTTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDHYMAVDV
DECKEREDEELSCDHYCHNYIGGYCSCRFGYILHTDNRTCRVECSNLFQRTGVITSPDFPNYPKSS
ECLYTIIELEEGFMVNLQFEDIFDIEDHPEVPCPYDYIKIKVGPVKLGPFCGEKAPEPISTQSHSVLILFH
SDNSGENRGWRLSYRAAGNECPQLPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECL
KDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNNLTTYKSEIKYSCQEPYYKMLNNNTGIYTCSAQGVW
MNKVLGRSLPTCLPVCGLPKFSRKLMARIFNGRPAQKGTTPWIAMLSHLNGQPFCGGSLLGSSWIVTAAH
CLHQSLDPEDPTLRDSDLLSPSDFKIIILGKHWRRLSDENEQHLGVKHTTLHPQYDPNTFENDVALVELLE
SPVLNAFVMPICLPEGPQQEGAMVIVSWGKQFLQRFPELMEIEIPIVDHSTCQKAYAPLKKKVTRDMI
CAGEKEGGKDACAGDSSGPMVTLNRERQWYLVGTVSWGDDCGKKDRYGVYSYIHHNKDWIQRVTGVRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001870
RefSeq Size:	4353



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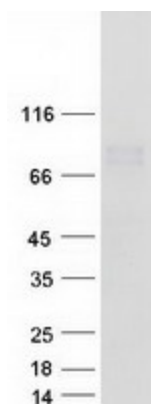
RefSeq ORF:	2097
Synonyms:	3MC1; CRARF; CRARF1; MAP-1; MAP1; MAp44; MASP; MASP-3; MASP3; PRSS5; RaRF
Locus ID:	5648
UniProt ID:	P48740
Cytogenetics:	3q27.3

Summary: 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.[provided by RefSeq, Apr 2010]

Protein Families: Druggable Genome, Protease

Protein Pathways: Complement and coagulation cascades

Product images:



Coomassie blue staining of purified MASP1 protein (Cat# [TP319651]). The protein was produced from HEK293T cells transfected with MASP1 cDNA clone (Cat# [RC219651]) using MegaTran 2.0 (Cat# [TT210002]).