

Recombinant Human MASP1 protein (His tag)

Catalog Number:PDEH100170



Note: Centrifuge before opening to ensure complete recovery of vial contents.

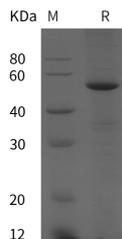
Description

Synonyms	Mannan-Binding Lectin Serine Protease 1;Complement Factor MASP-3;Mannose-Binding Lectin-Associated Serine Protease 1;MASP-1;RaRF;Serine Protease 5;MASP1;CRARF;CRARF1;PRSS5
Species	Human
Expression Host	E.coli
Sequence	His 20-Ala 447
Accession	P48740
Calculated Molecular Weight	47.0 kDa
Observed molecular weight	48 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Mannan-Binding Lectin Serine Protease 1 (MASP-1) belongs to the peptidase S1 family. MASP1 contains two CUB domains, one EGF-like domain, one peptidase S1 domain and two Sushi (CCP/SCR) domains. MASP1 is primarily expressed in liver. MASP1 involved in the lectin pathway of the complement, performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. MASP1 is synthesized as a zymogen and activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. MASP1 is not directly involved in complement activation but may act as an amplifier of complement

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activation by cleaving complement C2 or by activating another complement serine protease, MASP2. MASP1 is also able to cleave fibrinogen and factor XIII and may may be involved in coagulation. MASP1 is inhibited by SERPING1 and A2M.

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