

## 32-7563: Recombinant Human Mannan-Binding Lectin Serine Protease 1/MASP1 (C-6His)(Discontinued)

**Gene :** MASP1  
**Gene ID :** 5648  
**Uniprot ID :** P48740

### Description

Source: Human Cells.

MW :80.68kD.

Recombinant Human Mannan-Binding Lectin Serine Protease 1 is produced by our Mammalian expression system and the target gene encoding His20-Arg728 is expressed with a 6His tag at the C-terminus. 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 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 be involved in coagulation. MASP1 is inhibited by SERPING1 and A2M.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Tris,200mM NaCl,10%Glycerol,pH8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** HTVELNMFQIQSPGYPSDSEVTWNITVPDGFRIKLYFMHFNLESSYLCEYDYVKVETEDQVLATFCGR  
ETDTEQTPGQEVVLSPGSFMSTFRSDFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHYCHNYIGGGYYC  
SCRFYILHTDNRTCRCVCSNLFQRTGVITSPDFPNYPKSSECLYTIEEGFMVNLQFEDIFDIEDHPEVPC  
PYDYIKIKVGPVLPFCGKAPPEISTQSHSVLILFHSNDSNGENRGWRLSYRAAGNEPELQPPVHGKIEPSQA  
KYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNLLTTYKSE  
IKYSCQEPYKMLNNTGIYTCSAQGVWMNKVLRSLPTCLPECGQPSRSLPSLVKRIIGGRNAEPGLFPWQALI  
VVEDTSRVPNDKWFSGALLSASWILTAHVLRQRDRTTIPVSKEHVTYVYLGHLHDVRDKSGAVNSSAARVV  
LHPDFNIQNYNHDIQVLPVPLGPHVMPVCLPRLEPEGPAPHMLGLVAGWGISNPNVTVDEIISGTRTSLSD  
VLQYVKLPVVPVPHAECKTSYESRSGNYSVTENMFCAGYYEGGKDTCLGDSGGAFVIFDDLSQRWVQGLVSWG  
GPEECGSKQVYGVYTKVSNYVDWVWEQMLPQSVVEPQVERVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.