



Recombinant Human Complement MASP3 Catalytic Domain-10His tag

Cat. No.: CTP-241

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview This product is a 31 kDa recombinant human Complement MASP3 Catalytic Domain with a C-terminal 10-His tag expressed in the mouse myeloma cell line, NS0. It is available for Enzyme Activity Assays.

SPECIFICATIONS

Expressed Host	Mouse myeloma cell line, NS0
Molecule Mass	31 kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method)
Purity	>95% by SDS-PAGE under reducing conditions and visualized by silver stain
Specie Reactivity	Human
Target	MASP3
Type	Recombinant Enzyme
Formulation	Tris, NaCl and CaCl ₂
Sequence	I IGGRNAEPGL FPWQALIVVE DTSRVPNDKW FGSGALLSAS WILTAAHVLR SQRRDTTVIP VSKEHVTVYL GLHDVRDKSG AVNSSAARVV LHPDFNIQNY NHDIALVQLQ EPVPLGPHVM PVCLPRLEPE GPAPHMLGLV AGWGISNPV TVDEIISSTG RTLSDVLQYV KLPVVPFAEC KTSYESRSGN YSVTENMFCA GYEYGGKDTCLGDSGGAFVI FDDLSSQRWV VQGLVSWGGPE ECGSKQVYGV YTKVSNYVDW VWEQMGLPQS V
Applications	Enzyme Activity Assays
Product Form	Liquid
Storage	Store at -20/-80°C. Aliquot to avoid repeated freezing and thawing.

PROTEIN INFORMATION

Introduction

Mannan-binding lectin serine protease 1 functions in the lectin pathway of complement, which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5. Also plays a role in development.

Alternative Names

Mannan Binding Lectin Serine Peptidase 1; Complement-Activating Component Of Ra-Reactive Factor; Mannose-Binding Lectin-Associated Serine Protease 1; Mannose-Binding Protein-Associated Serine Protease; C4/C2 Activating Component Of Ra-Reactive Factor; Mannan-Binding Lectin Serine Protease 1; Ra-Reactive Factor Serine Protease P100; Mannan-Binding Lectin Serine Peptidase 1 (C4/C2 Activating Component Of Ra-Reactive Factor); Complement Factor MASP-3; Serine Protease 5; CRARF1; CRARF; PRSS5; RaRF;MASP-1; MASP3; MAp44; MAP1; MASP

Gene ID

[5648](#)

UniProt ID

[P48740](#)