HUMAN MASP2 PROTEIN, HFC TAG

Cat.#: 11322

Product Name: Human MASP2 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: MAP19;MASP-2;MASP1P1;sMAP

Target: MASP2

UNIPROT ID: O00187

Description: Recombinant human MASP2 protein with N-terminal Human Fc tag

Background: This gene encodes a member of the peptidase S1 family of serine proteases. The encoded preproprotein is proteolytically processed to generate A and B chains that heterodimerize to form the mature protease. This protease cleaves complement components C2 and C4 in order to generate C3 convertase in the lectin pathway of the complement system. The encoded protease also plays a role in the coagulation cascade through cleavage of prothrombin to form thrombin. Myocardial infarction and acute stroke patients exhibit reduced serum concentrations of the encoded protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 68.4 kDa after removal of the signal peptide.

Molecular Characterization: hFc(Glu99-Ala330) MASP2 (Gln298-Ser684)

Purity: The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

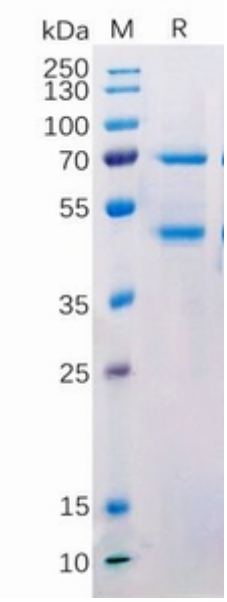

Figure 1. Human MASP2 Protein, hFc Tag on SDS-PAGE under reducing condition.