

MASP2 Protein, Rat, Recombinant (His)

General Information

Synonyms:	Masp2;MBL-associated serine protease 2;Mannan-binding lectin serine protease 2;Mannose-binding protein-associated serine protease 2 (MASP-2)
Protein Construction:	20-685 aa
Species:	Rat
Expression Host:	Baculovirus Insect Cells
Accession:	Q9JJS8
Molecular Weight:	79.2 kDa (predicted)
AA Sequence:	SKWPEPVFGRVLVSLGFPEKYGNHQDRSWTLTAPPGFRLRLYFTHFNLELSYRCEYDFVKLTSGTKVLATLCGQ ESTDTERAPGNDFYSLGPSLKVTFHSDYSNEKPFTGF EAFYAAEDVDECRTSLGDSVPCDHYCHNYLGGYYC SCRVGYLHQNKHTCSALCSGQVFTGRSGFLSSPEYPQYPKLS SCAYNIRLEEGFSITLDFVESFDVEMHPEA QCPYDSLKIQTDKREYGPFCGKTLPPRIETDSNKVITITFTTDESGNHTGWKIHYTSTAQPCPDPTAPPNGHISP VQATYVLKDSFSVFCKTGFE LLQGSVPLKSFTAVCQKDGSDRPIPECSIIDCGPPDDL PNGHVDYITGPEVTT YKAVIQYSCEETFYTMSSNGKYVCEADGFWTSSKGEKSLPVCKPVCGLSTHTSGGRIIGGQPAKPGDFPWQVL LLGETTAAGALIHDDWVLTAAHAVYGKTEAMSSLDIRMGILKRLSLIYQAWPEAVFIHEGYTHGAGFDNDIAL IKLKNKVTINRNIMPICLPRKEAASLMKTD FVGT VAGWGLTQKGFLARNLMFVDIPIVDHQKCATAYTKQPYP GAKVTVNMLCAGLDRGGK DSCRGDSSG GALVFLDNETQRWVGGIVSWGSINCGGSEQYGVYTKVTNYIPWI ENIINNF

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Serum protease that plays an important role in the activation of the complement system via mannose-binding lectin. After activation by auto-catalytic cleavage it cleaves C2 and C4, leading to their activation and to the formation of C3 convertase.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481