Recombinant Human MBL-2
Catalog # C488
Derived from Human Cells

DESCRIPTION
Recombinant Human Mannose Binding Lectin 2 is produced by our Mammalian expression system and the
target gene encoding Glu21-Ile248 is expressed with a 6His tag at the C-terminus.

Accession #: P11226
Known as: Mannose-Binding Protein C; MBP-C; Collectin-1; MBP1; Mannan-Binding Protein; Mannose-
Binding Lectin; MBL2; COLEC1; MBL

FORMULATION
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.

SHIPPING
The product is shipped at ambient temperature.
Upon receipt, store it immediately at the temperature listed below.

STORAGE
Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at <-20°C for 3 months.
Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

RECONSTITUTION
It is not recommended to reconstitute to a concentration less than 100μg/ml.
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

QUALITY CONTROL
Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

AMINO ACID SEQUENCE
ETVTCEDAQTKCPAVIACSSPGINGFPGBKGDRTGKKEKGPQGLQGPPKLGPGNPGSPGPKGQKGDPSGDSSLAASERKALQEMARKKWTFSLGKQVNKFLTNGEIMTFEKVKALCVKFOASVATPRNAENGAIQNLIEEFLGIDKTEGQFVLDBGNRTYTNWNEGEPNAGSDCDECVLKLKNGQWNDVPCSTSHLAVCPEFVIPDH

BACKGROUND
Mannose-Binding Protein C (MBP-C) belongs to the Collectin family of innate immune defense proteins. MBL
binds to an array of carbohydrate patterns on pathogen surfaces. Collectin family members share common
structural features: a cysteine rich amino-terminal domain, a collagen-like region, an α-helical coiled-coil neck
domain and a carboxy terminal C-type Lectin or carbohydrate recognition domain (CRD). MBL homotrimerizes
to form a structural unit joined by N-terminal disulfide bridges. These homotrimers further associates into
oligomeric structures of up to 6 units. Whereas two forms of MBL proteins exist in rodents and other animals.
Human MBL-2 is 25 kDa. Human MBL-2 is a secreted glycoprotein that is synthesized as a 248 amino acid (aa)
precursor that contains a 20 aa signal sequence, a 21 aa cysteine-rich region, a 58 aa collagen-like segment and
a 111 aa C-type lectin domain that binds to neutral bacterial carbohydrates.

SDS-PAGE

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