Recombinant Human MBL-2 (C-6His)

Catalog No: C488

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.
Source	Human Cells
Alternative name	Mannose-Binding Protein C; MBP-C; Collectin-1; MBP1; Mannan-Binding Protein; Mannose-Binding Lectin; MBL2; COLEC1; MBL
Predicted Molecular Weight	25.1kDa
AP Molecular Weight	31kDa, reducing conditions.
Accession No.	AAH36827.1
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
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.
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 BACKGROUND 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.

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