Recombinant Protein Technical Manual

Recombinant Human MBL2/MBL/COLEC1 Protein (His Tag)

RPES4255

Product Data:

Product SKU: RPES4255

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P11226

Protein Information:

Molecular Mass: 25.1 kDa

AP Molecular Mass: 31 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Mannose-Binding Protein C; MBP-C; Collectin; MBP1; Mannan-Binding Protein; Mannose-Binding Lectin; MBL2; MBL;COLEC1;HSMBPC;MBL;MBL2D;MBP;MBP1;MBPD

Immunogen Information:

Sequence: Glu21-Ile248

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.

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