

Recombinant mannose-binding protein C



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Catalog M001
Lot A00014
product specification sheet: PS-M001

Product description

Mannose-binding protein C belongs to the collectin family and is an important element in the innate immune system. The protein recognizes mannose and N-acetylglucosamine on many microorganisms, and is capable of activating the classical complement pathway. Deficiencies of mannose-binding protein C have been associated with susceptibility to autoimmune and infectious diseases.

Reference sequences: NM_000242
NP_000233
Swiss-prot P11226

Alternative names: MBP-c
mannose-binding lectin (protein C) 2
Collectin-1
MBP1
soluble MBL2
Mannan-binding protein
Mannose-binding lectin

Gene ID: 4153

Residues 21-248 of human mannose-binding protein C were cloned, the protein was over-expressed in HEK293EBNA1 cells and purified to homogeneity (figure 1). The calculated molecular weight of recombinant human mannose-binding protein C, residues 21-248, is 27.0 kDa. It contains an N-terminal hexahistidine tag and a TEV cleavage site. Each vial contains 100 µg MBP-c at 0.175 mg/ml.

Storage and stability

MBP-c should be stored at -80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at -20 °C or -80 °C (stable for at least 2 months).

Protein sequence

marplctllllmatlagalagshhhhhhdypipssenlyfqgsetvtcedaqk
tcpaviacsspgingfpgkdgrdgtkgekgepgqglrglqgpppgklgppg
npgpsgspgpkqgkqgdpgkspdgdsllaaserkalqtemarikkwltsl
gkqvgnkffltngeimtfekvkalcvkfqasvatprnaaengaiqnlikeafl
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pcstshlavcefpiaaa*

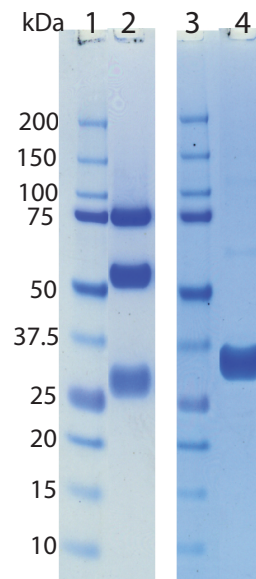


Figure 1. NuPage analysis of purified MBP-c.
lane 1, 3: marker
lane 2 : non reduced MBP-C
lane 4 : reduced MBP-C

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