



Product Datasheet

Product Name	Complement Component 1 Human Recombinant
Cata No	CB501493
Source	<i>Escherichia Coli.</i>
Synonyms	p32, HABP1, gC1Qr, GC1QBP, SF2p32, gC1Q-R, Complement component 1 Q subcomponent-binding protein mitochondrial, Glycoprotein gC1qBP, C1qBP, GC1q-R protein, Hyaluronan-binding protein 1, Mitochondrial matrix protein p32, p33, C1QBP.

Description

C1QBP having the accession number of NP_001203 binds to the globular "heads" of c1q thus inhibiting c1 activation. C1QBP interacts with a wide range of ligands and is implicated in cell signaling. C1QBP associates with C1r and C1s in order to yield the first component of the serum complement system. C1QBP protein has been identified as the p32 subunit of pre-mRNA splicing factor SF2, as well as a hyaluronic acid-binding protein.

C1QBP is a new marker of tumor cells and tumor-associated macrophages/myeloid cells in hypoxic/metabolically deprived areas of tumors. Mitochondrial C1QBP is a critical mediator of p14ARF-induced apoptosis.

C1QBP functions as a chemotactic factor for immature dendritic cells, and migration is mediated through ligation of both C1QBP and cC1qR/CR.

C1QBP overexpression successfully blocks mRNA accumulation from the adenovirus major late transcription unit (MLTU) and stimulates RNA polymerase II carboxy-terminal domain phosphorylation in virus-infected cells.

C1QBP binds with Hepacivirus core protein on CD8+ and CD4+ positive t-cells and inactivates Ick and akt.

C1QBP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain

containing 210 amino acids and having a molecular mass of 23.9 kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Formulation

The C1QBP protein solution contains 20mM Tris-HCl pH7.5, 20% glycerol and 1mM DTT.

Stability

C1QBP although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MLHTDGDKAF VDFLSDEIKE ERKIQKHKTL
PKMSGGWELE LNGTEAKLVR KVAGEKITVT
FNINNSIPPT FDGEEEPSQG QKVVEEQEPEL
TSTPNFVVEV IKNDDGKKAL VLDCHYPEDE
VGQEDEAESD IFSIREVSFQ STGESEWKDT
NYTLNTDSLW WALYDHLMDF LADRGVDNTF
ADELVELSTA LEHQEYITFL EDLKSFVKSQ.

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