Recombinant Human C1QBP Protein (aa 75-282, His Tag)

Catalog Number: PKSH030979

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

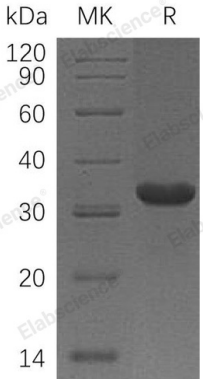
Description

Species	Human
Source	E.coli-derived Human C1QBP protein His 75-Gln 282, with an C-terminal His
Calculated MW	24.8 kDa
Observed MW	36 kDa
Accession	NP_001203.1
Bio-activity	Not validated for activity

Properties

Purity	> 96 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 96 % as determined by reducing SDS-PAGE.

Background

Hyaluronan binding protein 1 (HABP1), also known as p32 or gC1qR, is a ubiquitously expressed multifunctional phospho-protein implicated in cell signalling. Hyaluronan-binding protein 1 (HABP1) /p32/gC1qR was characterized as a highly acidic and oligomeric protein, which binds to different ligands like hyaluronan, C1q, and mannosylated albumin. The role of hyaluronan binding protein 1 (HABP1) in cell signaling was investigated and in vitro. HABP1 overexpressing cells showed extensive vacuolation and reduced growth rate, which was corrected by frequent medium replenishment. Further investigation revealed that HABP1 overexpressing cells undergo apoptosis, and they failed to enter into the S-phase. The sperm surface HABP1 level can be correlated with the degree of sperm motility. Hyaluronan binding protein 1 (HABP1) was reported to be present on human sperm surface and its involvement in fertilization has already been elucidated: decreased HABP1 level may be associated with low motility of sperms, which in turn might cause infertility in the patient. HABP1 also is an endogenous substrate for MAP kinase and upon mitogenic stimulation it is translocated to the nucleus in a MAP kinase-dependent manner.

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