HUMAN IGFBP7 PROTEIN, HFC TAG

Cat.#: 11492

Product Name: Human IGFBP7 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: IBP-7;TAF;IGFBP-rP1;MAC25 protein

Target: IGFBP7

UNIPROT ID: Q16270

Description: Recombinant human IGFBP7 Protein with N-terminal Human Fc tag

Background: This gene encodes a member of the insulin-like growth factor (IGF)-binding protein (IGFBP) family. IGFBPs bind IGFs with high affinity, and regulate IGF availability in body fluids and tissues and modulate IGF binding to its receptors. This protein binds IGF-I and IGF-II with relatively low affinity, and belongs to a subfamily of low-affinity IGFBPs. It also stimulates prostacyclin production and cell adhesion. Alternatively spliced transcript variants encoding different isoforms have been described for this gene, and one variant has been associated with retinal arterial macroaneurysm (PMID:21835307). [provided by RefSeq, Dec 2011]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 52.3 kDa after removal of the signal peptide. The apparent molecular mass of hFc-IGFBP7 is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: hFc(Glu99-Ala330) IGFBP7(Asp30-Leu282)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

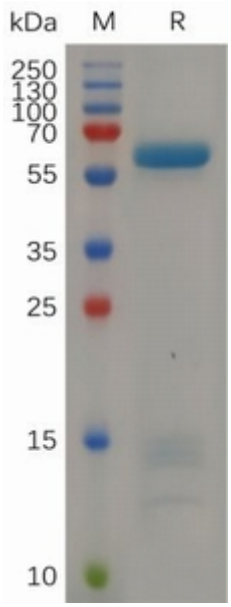

Figure 1. Human IGFBP7, N-hFc Tag on SDS-PAGE under reducing condition.