

Recombinant Rat IGFBP1/IGFBP-1 Protein (His Tag)

Catalog Number: PDER100231

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

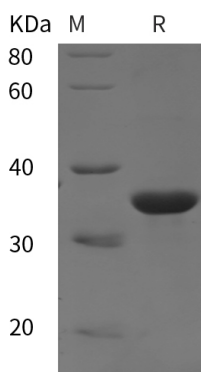
Description

Species	Rat
Source	E.coli-derived Rat IGFBP1 protein Ala26-Asn272, with an N-terminal His
Calculated MW	27.1 kDa
Observed MW	35 kDa
Accession	P21743
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat IGFBP1/IGFBP-1 proteins, 2 µg/lane of Recombinant Rat IGFBP1/IGFBP-1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 kDa.

Background

The insulin-like growth factor binding protein (IGFBP) family consists of six structurally related proteins that bind IGF with high affinity. These proteins share conserved cysteine-rich N- and C-terminal regions that participate in IGF binding. IGFBPs regulate the bioavailability of IGFs and modulate their biological activities, both positively and negatively. Some IGFBPs also have intrinsic bioactivity that is IGF-independent. Post-translational modifications of the IGFBPs, including glycosylation, phosphorylation and proteolysis, influence IGF binding affinities and tissue localization, affecting both the IGF-dependent and independent functions.

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