

Recombinant Mouse IGFBP-2/IGFBP2 Protein (Fc Tag)

Catalog Number: PKSM040345

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

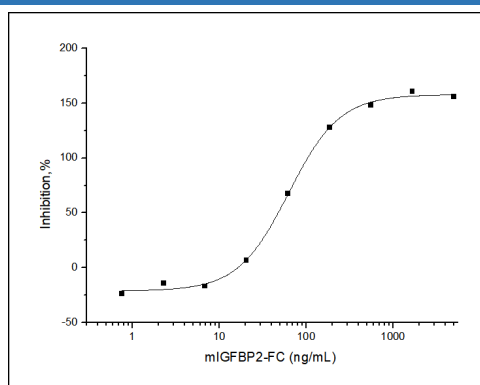
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse IGFBP-2/IGFBP2 protein Met1-Gln305, with an C-terminal hFc
Calculated MW	56.6 kDa
Accession	NP_032368.2
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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 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



Measured by its ability to inhibit the biological activity of IGFII on MCF7 human breast adenocarcinoma cells. The ED₅₀ for this effect is typically 0.05-0.4 µg/mL in the presence of 14 ng/mL human IGFII.

Background

For Research Use Only

Toll-free: 1-888-852-8623
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IGFBP-2, also known as IGFBP2, is a insulin-like growth factor-binding protein (IGFBP). IGFBPs prolong the half-life of the IGFs, control bioavailability, activity, and distribution of insulin-like growth factor (IGF) through high-affinity IGFBP/IGF complexes. Six high-affinity IGF-binding proteins (IGFBP-1 to -6) have been identified. The six IGFBPs are structurally related but encoded by distinct genes. IGFBPs have a high affinity for IGFs. Some members of the IGFBP family have been consistently shown to inhibit IGF actions by preventing them from gaining access to the IGF receptors, while others potentiate IGF actions by facilitating the ligand-receptor interaction. IGFBP-2 is overexpressed in many malignancies and is often correlated with an increasingly malignant status of the tumor, pointing to a potential involvement of IGFBP-2 in tumorigenesis. It contains 1 IGFBP N-terminal domain and 1 thyroglobulin type-1 domain. It inhibits IGF-mediated growth and developmental rates.

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