Recombinant Mouse IGFBP6/IGFBP-6 Protein (His Tag)

Catalog Number: PKSM041045

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

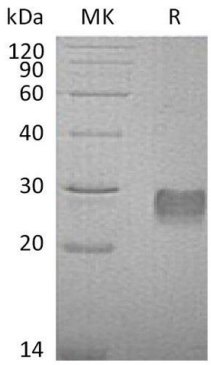
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse IGFBP6/IGFBP-6 protein Ala26-Gly238, with an C-terminal His
Calculated MW	23.7 kDa
Observed MW	28 kDa
Accession	P47880
Bio-activity	Not validated for activity

Properties

Purity	> 95 % 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 of 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



> 95 % as determined by reducing SDS-PAGE.

Background

Insulin-like growth factors (IGFs) comprise a family of endocrine, paracrine and autocrine polypeptides consisting of the ligands IGF1 and IGF2, two receptors (IGF1R, IGF2R), at least 6 IGF-binding proteins (IGFBPs) and IGFBP proteases. Among the binding proteins, IGFBP6 is unique because of its N-terminal disulfide linkages and its marked binding preference for IGF2. It is a potent inhibitor of the interaction between IGF2 and its receptor IGF1R, thus preventing major functions of IGF2, such as induction of proliferation, differentiation, cell adhesion, or colony formation. In particular, IGFBP-6 inhibited the growth of neuroblastoma and rhabdomyosarcoma xenografts. GFBP-6 is expressed in many tissue s, including lung, liver, gut and the central nervous system.

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