

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

Catalog Number: PKSM041045

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

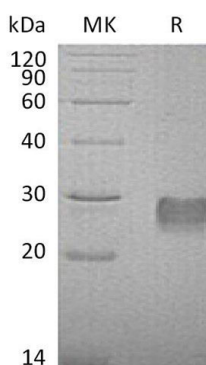
### Description

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

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	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. IGFBP-6 is expressed in many tissues, including lung, liver, gut and the central nervous system.

### For Research Use Only