

RPES8214

Product Information

Product SKU:	RPES8214	Expression Host:	E.coli	Size:	20µg
Tag:	N-Sumo	Reactivity:	Mouse	Accession:	P47876

Additional Information

Calculated MW:	40.1 kDa	Observed MW:	42 kDa
Sequence:	Ala26-Asn272		

Protein Information

Background: IGFBP1, also known as IGFBP-1 and insulin-like growth factor-binding protein 1, is a member of the insulin-like growth factor-binding protein family. IGF binding proteins (IGFBPs) are proteins of 24 to 45 KD. All six IGFBPs share 50% homology and have binding affinities for IGF-I and IGF-II at the same order of magnitude as the ligands have for the IGF-IR. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth-promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. IGFBP1 has an IGFBP domain and a thyroglobulin type-I domain. It binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. The binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.

Synonyms: IBP, placental protein, IGF-BP, AFBP, IBP1, IGF-BP25, placental protein 12, PP12, Igfbp-1, Igfbp1

Endotoxin: < 10 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

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.