



Recombinant Protein Technical Manual

Recombinant Human IGFBP-4/IGFBP4 Protein (His Tag)

RPES1620

Product Data:

Product SKU: RPES1620

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P22692

Protein Information:

Molecular Mass: 27.0 kDa

AP Molecular Mass: 32 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Insulin-Like Growth Factor-Binding Protein 4; IBP-4; IGF-Binding Protein 4; IGFBP-4; IGFBP4; IBP4

Immunogen Information:

Sequence: Asp22-Glu258

Background:

Insulin-like growth factor binding protein 4 (IGFBP-4) is a 24 kDa protein that binds insulin-like growth factor 1 (IGF) and IGF-2 with high affinity and inhibits IGF action in vitro. All members of the IGFBP family can bind IGF-I and IGF-II with about equal affinity, but IGFBP-4 binds IGF2 more than IGF1. It contains IGFBP N-terminal domain and thyroglobulin type domain. IGFBP-4 is induced by forskolin and N6, O2'-dibutyryl adenosine 3', or 5'-cyclic monophosphate. The IGF-binding proteins can 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.