
Product Data Sheet

Product Name: IGFBP 1 Human

Cat. No.: GP20427

Batch No.: 1

Product Data

Purity	>98%	Source	Mouse myeloma cell line, NS0.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IBP-1; IGF-Binding Protein 1; AFBP; PP12; IGF-BP25; hIGFBP-1; IGFBP-1.		
Amino Acid Sequence	APWQCAPCSA EKLALCPPVS ASCSEVTRSA GCGCCPMCAL PLGAACGVAT ARCARGLSCR ALPGEQQPLH ALTRGQGACV QESDASAPHA AEAGSPESPE STEITEEELL DNFHLMAPSE EDHSILWDAI STYDGSKALH VTNIKKWKEP CRIELYRVVE SLAKAQETSG EEISKFYLPN CNKNGFYHSR QCETSMDGEA GLCWCVYPWN GKRIPIGSP EI RGD PNCQIYF NVQN.		
Solubility	It is recommended to reconstitute the lyophilized IBP-1 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IGFBP-1 protein was lyophilized from a 0.2μm filtered concentrated solution in PBS.		

Introduction

IGFBP1 is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Biological Activity

The ED₅₀, as determined by the inhibition of rHuIGF-I-induced proliferation of human MCF-7 cells, is less than 4μg/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized IGFBP1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IGF-BP1 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

IGFBP-1 Human Recombinant (26-259 a.a.) produced in NS0 is a single, glycosylated, polypeptide chain containing 234 amino acids and having a molecular mass of 25kDa. The IGFBP1 is purified by proprietary chromatographic techniques.

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