9051 Mira Mesa Blvd, #910094
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IGFBP 1 Human

Insulin-Like Growth Factor Binding Protein-1 Human Recombinant
GRF0175

Product Overview

Name	IGFBP 1 Human
Description	
Insulin-Like Growth Factor Binding Protein-1 Human Recombinant	
Accession (Primary)	P08833
Synonyms	
IBP-1, IGF-Binding Protein 1, AFBP, PP12, IGF-BP25, hIGFBP-1, IGFBP-1.	
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.	
Source	
Mouse myeloma cell line, NS0.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
IGFBP-1 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
APWQCAPCSA EKLALCPPVS ASCSEVTRSA GCGCCPMCAL PLGAACGVAT ARCARGLSCR ALPGEQQPLH ALTRGQGACV QESDASAPHA AEAGSPESPE STEITEEELL DNFHLMAPSE EDHSILWDAI STYDGSKALH VTNIKKWKEP CRIELYRVVE SLAKAQETSG EEISKFYLPN CNKNGFYHSR QCETSMDGEA GLCWCVYPWN GKRIPGSPEI RGDPNCQIYF NVQN.	

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Biological Activity

The ED 50 , as determined by the inhibition of rHuIGF-I-induced proliferation of human MCF-7 cells, is less than 4 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized IBP-1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IGFBP 1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08833)