

Active Recombinant Human IGFBP-1 Protein (26-259aa)

Cat. No. IGFBP1-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IGFBP1 (26-259aa) without tag was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	26-259aa
Description	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP N-terminal domain and a thyroglobulin type-I domain. The encoded protein, mainly expressed in the liver, circulates in the plasma and binds both insulin-like growth factors (IGFs) I and II, prolonging their half-lives and altering their interaction with cell surface receptors. This protein is important in cell migration and metabolism. Low levels of this protein may be associated with impaired glucose tolerance, vascular disease and hypertension in human patients.
Form	Liquid
Bio-activity	Measured by its ability to inhibit proliferation using MCF-7 human breast cancer cells in the presence of Human IGF-1. The ED50 range ≤ 3 $\mu\text{g/mL}$.
Molecular Mass	25.2 kDa (234aa)
AA Sequence	APWQCAPCSAEKLALCPPVSASCSEVTRSAGCGCCPMCALPLGAACGVATARCAR

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GLSCRALPGEQQPLHALTRGQGACVQESDASAPHAEEAGSPESPESTEITEEELLDD
 NFHLMAPSEEDHSILWDAISTYDGSKALHVTNIKKWKEPCRIELYRVVESLAKAQETS
 GEEISKFYLPNCNKNNGFYHSRQCETSMGDGEAGLCWCVYPWNGKRIPGSPEIRGDP
 NCQIYFNVQN

Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	Note: For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	IGFBP1 insulin like growth factor binding protein 1 [Homo sapiens (human)]
Official Symbol	IGFBP1
Synonyms	IGFBP1; insulin like growth factor binding protein 1; AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1; insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; IGFBP-1; alpha-pregnancy-associated endometrial globulin; amniotic fluid binding protein; binding protein-25; binding protein-26; binding protein-28; growth hormone

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independent-binding protein; placental protein 12

Gene ID 3484

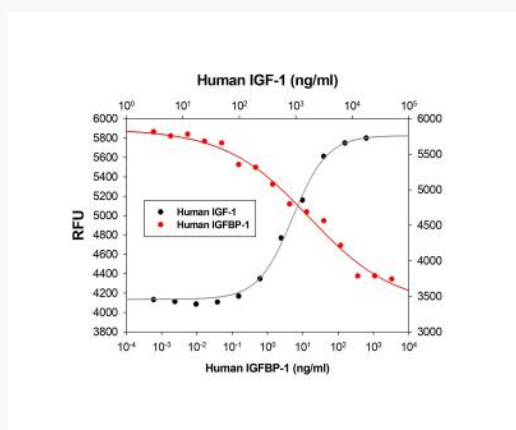
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Protein Refseq NP_000587

MIM 146730

UniProt ID P08833

Activity

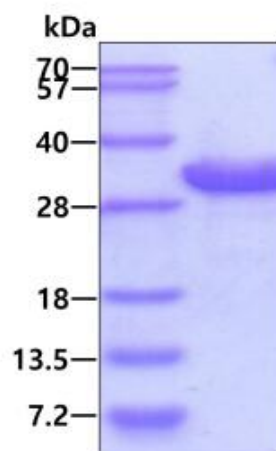


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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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