abcam

Product datasheet

Recombinant human IGFBP3 protein ab49831

Overview

Product name	Recombinant human IGFBP3 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P17936
Species	Human
Sequence	GASSGGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSE GQPCGIYTERCGSGLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYL LPAPPAPGNASESEEDRSAGEVESPSVSSTHRVSDPKFHPLHSKIIIKK GHAKDSQRYKVDYESQSTDTQNFSSESKRETEYGPCRREMEDTLNHLKFL NVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTT KGKEDVHCYSMQSK
Molecular weight	29 kDa
Additional sequence information	264 amino acid residues

Specifications

Our Abpromise guarantee covers the use of **ab49831** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	The ED_{50} was determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED_{50} for this effect is ≤ 0.2 µg/ml in presence of 15 ng/ml of human IGF-II.
Applications	Inhibition Assay SDS-PAGE
Purity	> 95 % SDS-PAGE. Greater than 98% by SDS-PAGE and HPLC analyses.
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 20mM Sodium citrate, pH 4 Endotoxin level is less than 0.1 ng per µg (1EU/µg). This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with water to a concentration of 0.1-1.0mg/ml.

General Info

Function	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.
Tissue specificity	Expressed by most tissues. Present in plasma.
Sequence similarities	Contains 1 IGFBP N-terminal domain. Contains 1 thyroglobulin type-1 domain.
Developmental stage	IGFBP3 levels are higher during extrauterine life and peak during puberty.
Domain	The thyroglobulin type-1 domain mediates interaction with HN.
Post-translational modifications	Phosphorylation sites are present in the extracelllular medium.
Cellular localization	Secreted.

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