

## Product datasheet

# Recombinant human IGFBP3 protein ab49831

### Overview

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<b>Product name</b>	Recombinant human IGFBP3 protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P17936</a>
<b>Species</b>	Human
<b>Sequence</b>	GASSGGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSE GQPCGIYTERCGSGLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYL LPAPPAPGNASESEEDRSAGEVESPSVSSTHRVSDPKFHPLHSKIIIIKK GHAKDSQRYKVDYESQSTDTQNFSSSESKRETEYGPCRREMEDTLNHLKFL NVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTT KGKEDVHCYSMSQSK
<b>Molecular weight</b>	29 kDa
<b>Additional sequence information</b>	264 amino acid residues

### Specifications

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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.

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

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<b>Stability and Storage</b>	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.
<b>Reconstitution</b>	Reconstitute with water to a concentration of 0.1-1.0mg/ml.

## General Info

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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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