

Product datasheet

Recombinant human IGF2 protein ab9575

3 References 1 Image

Description

<b>Product name</b>	Recombinant human IGF2 protein
<b>Biological activity</b>	The <b>ED<sub>50</sub></b> was determined by a cell proliferation assay using FDC-P1 cells is $\leq 2.0$ ng/ml, corresponding to a specific activity of $\geq 5 \times 10^5$ units/mg.
<b>Purity</b>	> 98 % SDS-PAGE. Endotoxin level is less than 0.1 ng per g (1EU/g).
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<a href="#">P01344</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GMECCFRS CDLALLETYC ATPAKSE
<b>Predicted molecular weight</b>	8 kDa

Specifications

Our [Abpromise guarantee](#) covers the use of **ab9575** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	The ED50 was determined by a cell proliferation assay using FDC-P1 cells is $< 2.0$ ng/ml, corresponding to a specific activity of $>5 \times 10^5$ units/mg. ab9575 was used as a positive control for <a href="#">ab9574</a> (Anti-IGF2 antibody).

Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Reconstitution

Reconstitute with 100ul of water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.

## General Info

### Function

The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.

Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.

### Involvement in disease

Epigenetic changes of DNA hypomethylation in IGF2 are a cause of Silver-Russell syndrome (SIRS) [MIM:180860]. SIRS is a clinically heterogeneous condition characterized by severe intrauterine growth retardation, poor postnatal growth, craniofacial features such as a triangular shaped face and a broad forehead, body asymmetry, and a variety of minor malformations.

### Sequence similarities

Belongs to the insulin family.

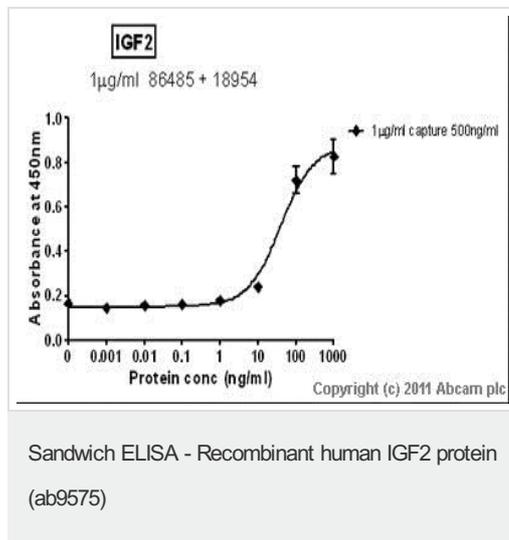
### Post-translational modifications

O-glycosylated with a core 1 or possibly core 8 glycan.

### Cellular localization

Secreted.

## Images



Standard curve for IGF2 (Analyte: ab9575); dilution range 1pg/ml to 1µg/ml using Capture Antibody [ab86485](#) at 1µg/ml and Detector Antibody [ab18954](#) at 0.5µg/ml.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors