

## Product datasheet

# Recombinant human IGF2 protein (Animal Free) ab217386

### Description

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<b>Product name</b>	Recombinant human IGF2 protein (Animal Free)	
<b>Biological activity</b>	Determined by its ability to stimulate the proliferation of mouse FDC-P1 cells. The expected ED <sub>50</sub> is ≤ 2.0 ng/mL, corresponding to a specific activity of ≥ 5 x 10 <sup>5</sup> units/mg.	
<b>Purity</b>	> 98 % SDS-PAGE. assessed also by HPLC	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">P01344</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	Yes	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE	
<b>Predicted molecular weight</b>	8 kDa	
<b>Amino acids</b>	25 to 91	
<b>Additional sequence information</b>	Full length mature chain without signal peptide, without propeptide.	

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab217386** 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>	SDS-PAGE Functional Studies HPLC
<b>Form</b>	Lyophilised

### Preparation and Storage

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<b>Stability and Storage</b>	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.
<b>Reconstitution</b>	For lot specific reconstitution information please contact our Scientific Support Team.

## General Info

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<b>Function</b>	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.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the insulin family.
<b>Post-translational modifications</b>	O-glycosylated with a core 1 or possibly core 8 glycan.
<b>Cellular localization</b>	Secreted.

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**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

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- 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
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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.

## Terms and conditions

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