

Product datasheet

Recombinant IGF2 protein ab97703

Description

Product name	Recombinant IGF2 protein	
Purity	> 95 % SDS-PAGE. ab97703 is purified by Ion-exchange chromatography.	
Expression system	Yeast	
Accession	Q5MGT1	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Sequence	YGTAETLCGG ELVDTLQFVC GDRGFYFSRP VGRNRRRINR GIVEECCFRS CDLALLETYC AKSVKSE	
Predicted molecular weight	8 kDa	
Amino acids	25 to 91	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab97703** in the following tested applications.

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

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. Constituents: 2.68% PBS, 10% Trehalose
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

General Info

Function	The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent
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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.

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

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