abcam

Product datasheet

Recombinant human IGF2 protein (Active) ab268655

2 Images

Description

Product name	Recombinant human IGF2 protein (Active)
Biological activity	The ED50 of ab268655 as determined by dose dependent proliferation of MCF7 cells was <1ng/ml.
Purity	>= 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P01344
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE
Molecular weight information	SDS-PAGE molecular weight: ~7.8kDa
Amino acids	25 to 91
Additional sequence information	Insulin-like growth factor II

Specifications

Our Abpromise guarantee covers the use of **ab268655** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Constituents: Tris, Sodium chloride

Lyophilized from 0.2 µm filtered solution.

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

Reconstitution

A quick spin of the vial followed by reconstitution in sterile PBS at 100 µg/mL. Upon reconstitution, this cytokine can be stored in working aliquots at 2°- 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

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.

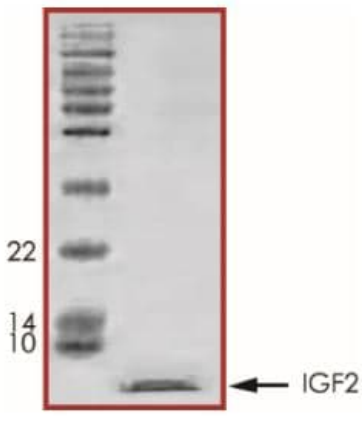
Post-translational modifications

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

Cellular localization

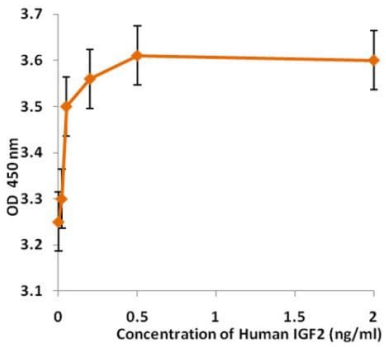
Secreted.

Images



SDS-PAGE - Recombinant human IGF2 protein (Active) (ab268655)

SDS-PAGE analysis of ab268655.



Functional Studies - Recombinant human IGF2 protein (Active) (ab268655)

The ED50 of ab268655 as determined by dose dependent proliferation of MCF7 cells was <1ng/ml.

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

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