abcam

Product datasheet

Recombinant mouse IGF2 protein (Animal Free) ab233634

2 Images

Description

Product name	Recombinant mouse IGF2 protein (Animal Free)
Biological activity	FDC-P1 cell proliferation. ED_{50} ≤ 50 ng/ml (≥ 2.0 x 10^4 units/mg).
Purity	> 95 % SDS-PAGE.
Endotoxin level	<=1.000 Eu/µg
Expression system	Escherichia coli
Accession	**P09535**
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Mouse
Sequence	AYGPGETLCGGELVDTLQFVCSDRGFYFSRPSSRANRRS RGIVEECCFRS CDLALLETYCATPAKSE
Predicted molecular weight	7 kDa
Amino acids	25 to 91
Additional sequence information	This product is the mature full length protein from aa 25 to 91. The signal peptide is not included

Specifications

Our **Abpromise guarantee** covers the use of **ab233634** 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

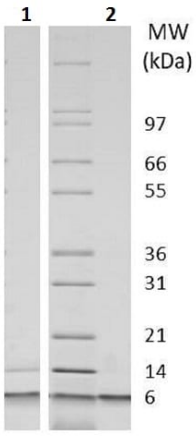
Stability and Storage	Shipped at 4°C. Store at -20°C.

	Constituent: 0.1% Trifluoroacetic acid Lyophilized from a sterile (0.2 micron) filtered aqueous solution. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge vial before opening. Reconstitute with sterile water at 0.1 mg/ml. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

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

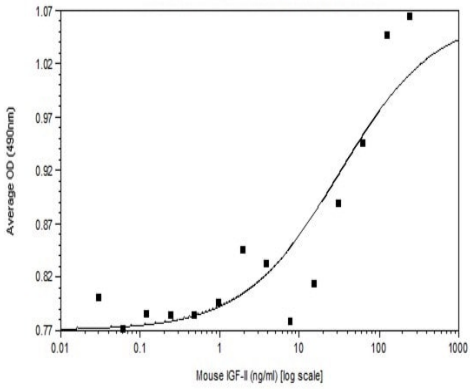


SDS-PAGE - Recombinant mouse IGF2 protein (Animal Free) (ab233634)

1 µg ab233634 analyzed on a 4-20% Tris-Glycine gel, stained with Coomassie Blue.

Lane 1: Non-reducing conditions.

Lane 2: Reducing conditions.



Functional Studies - Recombinant mouse IGF2 protein (Animal Free) (ab233634)

ab233634 induced proliferation of FDC-P1 cells.

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