Datasheet for ABIN6699973

IGF2 Protein

2 Images

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Overview

Quantity:	50 µg
Target:	IGF2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Insulin-like Growth Factor II Recombinant Protein
Purification:	Insulin-like Growth Factor II purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose dependent proliferation of FDC-P1 cells and is typically 1.5-6 ng/mL.

Target Details

Target:	IGF2
Alternative Name:	IGF2 (IGF2 Products)
Background:	Synonyms: Somatamedin A Background: Insulin-like Growth Factor II, IGF-II, is a major growth hormone made by Theca

Target Details

	cells during gestation. While IGF-II is known to engage the IGF-I receptor (IGF1R) to mediate embryonic growth, IGF-II is also known to bind the IGF-II receptor (IGF2R). IGF2R is thought to be signaling dead receptor that acts as a sink by binding up free IGF-II. Recombinant human IGF-II is non-glycosylated protein, containing 67 amino acids, with a molecular weight of 7.5 kDa.
UniProt:	P01344
Pathways:	Hormone Activity, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Regulation of Carbohydrate Metabolic Process, Activated T Cell Proliferation

Application Details

Application Notes:	Other: User Optimized Application_Note: Insulin-like Growth Factor II Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Insulin-like Growth Factor II in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

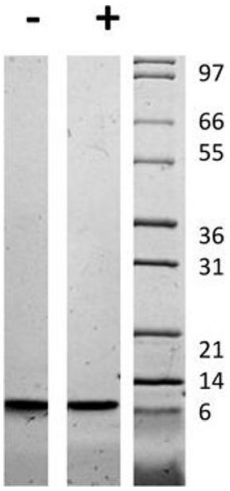
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 50µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

Handling

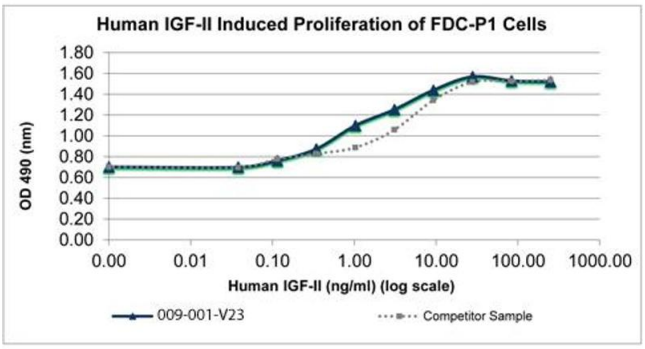
	at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Insulin-like Growth Factor II Recombinant Protein SDS-PAGE of Human Insulin-like Growth Factor II Recombinant Protein. Lane 1: 1 µg Human IGF-II in non-reducing conditions . Lane 2: 1 µg Human IGF-II in reducing conditions (+). Lane 3: Molecular weight marker. Human IGF-II has a predicted MW of 7.5 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Insulin-like Growth Factor II Recombinant Protein Bioactivity of Human Insulin-like Growth Factor II Recombinant Protein. FDC-P1 cells were cultured with 0 to 250 ng/mL Human IGF-II. Cell proliferation was measured after 48 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human IGF-II is 1.1-1.6 ng/mL. This value is comparable to the competitor sample and to the expected range of 1.5-6 ng/mL.