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Datasheet for ABIN1692133 IGF2 Protein (AA 25-91)

Overview

Quantity:	50 µg
Target:	IGF2
Protein Characteristics:	AA 25-91
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Insulin-Like Growth Factor II/IGF2
Sequence:	MFPAMPLSSL FVNAYRPSET LCGGELVDTL QFVCGDRGFY FSRPASRVSR RSRGIVEECC FRSCDLALLE TYCATPAKSE
Characteristics:	Recombinant Human Insulin-Like Growth Factor II/IGF2 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala25-Glu91) of Human IGF2.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IGF2
Alternative Name:	IGF2 (IGF2 Products)

Target Details

Background:	<p>Insulin-Like Growth Factor II (IGF2) belongs to the insulin family of polypeptide growth factors that is involved in development and growth. Members of this family are structurally homologous to proinsulin, and share higher sequence identity. IGF2 is expressed only from the paternally inherited allele and believed to be secreted by the liver and to circulate in the blood. IGF2 possess growth-promoting activity and can stimulate the proliferation and survival of various cell types including muscle, bone, and cartilage tissue in vitro. IGF2 is influenced by placental lactogen and may play a role in fetal development.</p> <p>Alternative Names: Insulin-Like Growth Factor II, IGF-II, Somatomedin-A, IGF2, PP1446</p>
Molecular Weight:	8.91 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

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 5 mM Hac, pH ~3.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months