Datasheet for ABIN2017990

IGF2 Protein (AA 25-91, Isoform 1)

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Overview

Quantity:	50 µg
Target:	IGF2
Protein Characteristics:	AA 25-91, Isoform 1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 20 ng/mL, measured by a cell proliferation assay using FDCP-1 cells, corresponding to a specific activity of > 5x10^4 units/mg. AA 25-91 (isoform I), expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IGF2
Alternative Name:	Insulin-Like Growth Factor II (IGF-II) (IGF2 Products)
Background:	Insulin-like Growth Factor II (IGF-II) is a single chain 7 kDa polypeptide, and shares a high degree of homology with insulin. During circulation in vivo, IGF-II is complexed to high affinity binding proteins, IGF Binding Proteins (IGFBP), which act as circulating reservoirs, transport

Target Details

	IGF-II, and prolong the half life of IGF-II. The receptors of IGF-II (IGFRs) are transmembrane tyrosine receptors, and are heterotetrameric consisting of two alpha-subunits and two beta-subunits. IGFRs execute their role via intracellullar signaling molecules, such as IRS, shc, and PI3K. The functions of IGF-II include promoting cell survival, growth, proliferation, differentiation and motility. In particular, IGF-II promotes proliferation, inhibits death, and stimulates transformation in breast cancer cells.Recombinant human Insulin-like Growth Factor II (rhIGF-II) produced in E. coli is a single non-glycosylated polypeptide chain containing 68 amino acids. A fully biologically active molecule, rhIGF-II has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE. Synonyms: Insulin-like Growth Factor-II, Somatamedin A
Molecular Weight:	7.6 kDa, observed by reducing SDS-PAGE.
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

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 25 mM Tris, pH 8.0.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Insulin-like Growth Factor II (rhIGF-II) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIGF-II remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months