Datasheet for ABIN7455638

IGF1 Protein

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Overview

Quantity:	50 µg
Target:	IGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Insulin-like Growth Factor I (4-70) is produced by our E.coli expression system and the target gene encoding Thr52-Ala118 is expressed.
Characteristics:	Extracellular Domain Protein
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	IGF1
Alternative Name:	IGF-I (IGF1 Products)
Background:	Insulin-Like Growth Factor I, IGF-I, Mechano Growth Factor, MGF, Somatomedin-C, IGF1, IBP1 Description: Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGFs are generated by proteolytic processing of inactive precursor protein containing N-terminal and C-terminal propeptide regions. Mature human IGF-I consisting of 70 amino acids with 94 % identity with mouse IGF1 and exhibits cross-species activity. IGF1 binds IGF-1R, IGF-2R, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF1

Target Details

	expression is regulated by growth hormone.
Molecular Weight:	7.3 KDa
UniProt:	P05019
Pathways:	RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Hormone Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Stem Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Proliferation, Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	a 0.2 µm filtered solution of 20 mM NaAc-HAc, pH 4.5
Storage:	-20 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months