

# Datasheet for ABIN7318625 **IGF1 Protein**



Overview

Quantity:	100 µg
Target:	IGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Purpose:	Recombinant Human IGF-1/IGF1 Protein (Active)
Sequence:	Gly49-Ala118
Characteristics:	Recombinant Human Insulin-like Growth Factor I is produced by our E.coli expression system and the target gene encoding Gly49-Ala118 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Biological Activity Comment:	Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is 14.9 ng/ml.

#### Target Details

Target:	IGF1
Alternative Name:	IGF-1/IGF1 (IGF1 Products)

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# Target Details

Background:	Background: 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 proteins, which contains the N- and C-terminal propeptide
	regions. Mature human IGF-I consisting of 70 amino acids has 94 % identity with mouse IGF-I
	and exhibits cross-species activity. IGF-1 binds IGF-IR, IGF-IIR, and the insulin receptor and
	plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF-1
	expression is regulated by growth hormone. R3 IGF-1 is an 83 amino acid analog of IGF-1
	comprising the complete human IGF-1 sequence with the substitution of an Arg (R) for the
	Glu(E) at position three, hence R3, and a 13 amino acid extension peptide at the N terminus. R3
	IGF-1 has been produced with the purpose of increasing biological activity. R3 IGF-1 is significantly more potent than human IGF-I in vitro.
	IGF1, IBP1
	Molecular Weight:
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
	r ostive Regulator of lat ben Directilation

# Application Details

Restrictions: For Research Use only

# Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 $\mu m$ filtered solution of 300 mM NaAc, pH 6.5.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

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