

Product datasheet for **AR09044PU-L**

Insulin-like growth factor I / IGF1 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Insulin-like growth factor I / IGF1 human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGPETLCGAE LVDALQFVCG DRGFYFNKPT GYGSSRRAP QTGIVDECCF RSCDLRRLEM YCAPLKPAKS A
Predicted MW:	7.7 kDa
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4
Bioactivity:	Biological: The ED50 for this effect is < 3.6 ng/ml. Measured in a cell proliferation assay using MCF7 cell.
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human IGF-1 was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000609
Locus ID:	3479
UniProt ID:	P05019
Cytogenetics:	12q23.2
Synonyms:	IGF-I, Somatomedin-C, Mechano growth factor, MGF, IBP1



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Summary:

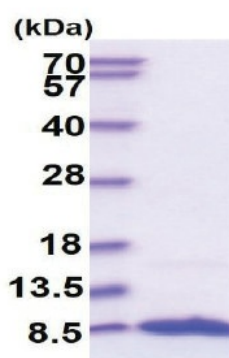
The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways:

Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer

Product images:

15% SDS-PAGE (3 μ g)