

Product datasheet for PH312527

IGF1 (NM_000618) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IGF1 MS Standard C13 and N15-labeled recombinant protein (NP_000609)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212527
Predicted MW:	17.03 kDa
Protein Sequence:	>RC212527 representing NM_000618 Red=Cloning site Green=Tags(s) MGKISSLPQQLFKCCFCDFLKVKMHTMSSSHLFYLALCLLTFTSSATAGPETLCGAELVDALQFVCGDRG FYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPASARSVRAQRHTDMPKTQKEVHLKN ASRGSAGNKNYRM TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000609</u>
RefSeq Size:	7260
RefSeq ORF:	459
Synonyms:	IGF; IGF-I; IGF1; MGF
Locus ID:	3479
UniProt ID:	<u>P05019</u> , <u>Q5U743</u> , <u>Q59GC5</u>



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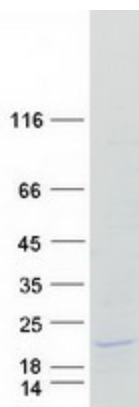
Cytogenetics: 12q23.2

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:



Coomassie blue staining of purified IGF1 protein (Cat# [TP312527]). The protein was produced from HEK293T cells transfected with IGF1 cDNA clone (Cat# [RC212527]) using MegaTran 2.0 (Cat# [TT210002]).