

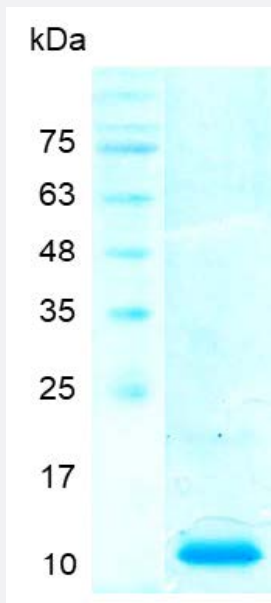
Bioactive

IGF2 (Human) Recombinant Protein

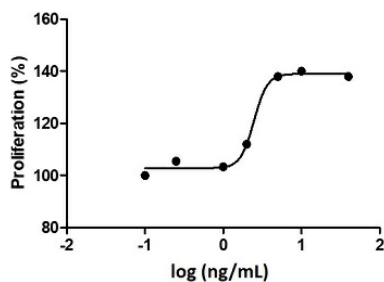
Catalog # P7854

Size 20 ug

Applications



SDS-PAGE analysis of IGF2 (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description

Human IGF2 recombinant protein with polyhistidine tag at the N-terminus expressed in *Escherichia coli*.

Sequence

AYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGVVECCFRSCDLALLETYCATPAK SE with polyhistidine tag at the N-terminus.

Host

Escherichia coli

Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ni-NTA chromatography
Purity	> 98% as determined by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ ug of protein by the LAL method.
Activity	ED ₅₀ < 3 ng/mL, Measured by the induction of MCF-7 cells proliferation. The specific activity of recombinant human IGF-II is > 3 x 10 ⁵ IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of IGF2 (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 8.0. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. The product is stable for one year. Avoid repeated freeze/thaw cycles.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — IGF2

Entrez GeneID	3481
Gene Name	IGF2
Gene Alias	C11orf43, FLJ22066, FLJ44734, INSIGF, pp9974
Gene Description	insulin-like growth factor 2 (somatomedin A)

Omim ID [147470](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the insulin family of polypeptide growth factors that is involved in development and growth. It is an imprinted gene and is expressed only from the paternally inherited allele. It is a candidate gene for eating disorders. There is a read-through, INS-IGF2, which aligns to this gene at the 3' region and to the upstream INS gene at the 5' region. Alternatively spliced transcripts, encoding either the same or different isoform, have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000011012|OTTHUMP00000011015|OTTHUMP00000011018|OTTHUMP00000011157|insulin-like growth factor 2|insulin-like growth factor III|insulin-like growth factor type 2|putative insulin-like growth factor II associated protein|somatomedin A

Disease

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- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Beckwith-Wiedemann Syndrome](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
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- [Carcinoma](#)
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- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Ductus Arteriosus](#)
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- [Ovarian cancer](#)
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- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)

- [Puberty](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Social Perception](#)
- [Stomach Neoplasms](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Neoplasms](#)
- [Weight Gain](#)
- [Werner syndrome](#)