

## Active Recombinant Human IGF2 Protein

**Cat. No.** IGF2-058H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | The mature recombinant human IGF-II protein containing 70aa (A25-E91) without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>            | 25-91 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>              | This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| <b>Bio-activity</b>             | Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is 1.5-6 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>           | 7.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product-Related Proteins</b> | 25-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein as determined by the LAL method |
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                           |
| <b>Storage</b>        | At -80 centigrade. Avoid repeated freeze-thaw cycles.      |
| <b>Storage Buffer</b> | PBS                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IGF2 insulin like growth factor 2 [ Homo sapiens (human) ]                                                                                                                                                                             |
| <b>Official Symbol</b> | IGF2                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | IGF2; insulin like growth factor 2; GRDF; SRS3; IGF-II; PP9974; C11orf43; insulin-like growth factor II; Names; T3M-11-derived growth factor; insulin-like growth factor 2 (somatomedin A); insulin-like growth factor type 2; preptin |
| <b>Gene ID</b>         | 3481                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_000612                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_000603                                                                                                                                                                                                                              |
| <b>MIM</b>             | 147470                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | P01344                                                                                                                                                                                                                                 |

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