

## Insulin Like Growth Factor-2 Active Protein | IGF2 active protein

Recombinant Human Insulin Like Growth Factor-2

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38141</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Insulin Like Growth Factor-2; Recombinant Human Insulin Like Growth Factor-2; IGF2 Human; Insulin-Like Growth Factor-2 Human Recombinant; Somatomedin-A; IGF2; INSIGF; pp9974; C11orf43; FLJ22066; FLJ44734; IGF2 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification     | Greater than 97.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                    |
| Form/Format             | The protein was lyophilized with no additives.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                              |
| Sequence                | AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE                                                                                                                                                                                                                                                                                |
| Sequence Length         | 180                                                                                                                                                                                                                                                                                                                                                      |
| Solubility              | It is recommended to reconstitute the lyophilized IGF2 in sterile 18M Omega -cm H2O at a concentration of 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                       |
| Biological Activity     | The ED50, calculated by the dose-dependent induction of MCF-7 cell proliferation was found to be 0.85ng/ml corresponding to a Specific Activity of 1,176,470IU/mg.                                                                                                                                                                                       |
| Preparation and Storage | Lyophilized IGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IGFII should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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| Related Product Information for IGF2 active protein | <p><b>Description:</b> Insulin-Like Growth Factor-II Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton. IGF-II is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> IGF-2 is 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. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.</p> |
| Product Categories/Family for IGF2 active protein   | <a href="#">Cytokines and Growth Factors</a> ; <a href="#">Growth Factors</a> ; <a href="#">Insulin-Like Growth Factor</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### NCBI AND UNIPROT INFORMATION

|                           |                             |
|---------------------------|-----------------------------|
| NCBI GI #                 | <a href="#">4504609</a>     |
| NCBI GeneID               | <a href="#">3481</a>        |
| NCBI Accession #          | <a href="#">NP_000603.1</a> |
| NCBI GenBank Nucleotide # | <a href="#">NM_000612.5</a> |

|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | P01344; P78449; Q14299; Q1WM26; Q9UC68; Q9UC69; B3KX48; B7WP08; C9JAF2; E3UN45                                                               |
| Molecular Weight                 | 26,331 Da                                                                                                                                    |
| NCBI Official Full Name          | insulin-like growth factor II isoform 1 preproprotein                                                                                        |
| NCBI Official Synonym Full Names | insulin-like growth factor 2                                                                                                                 |
| NCBI Official Symbol             | IGF2                                                                                                                                         |
| NCBI Official Synonym Symbols    | IGF-II; PP9974; C11orf43                                                                                                                     |
| NCBI Protein Information         | insulin-like growth factor II; T3M-11-derived growth factor; insulin-like growth factor 2 (somatomedin A); insulin-like growth factor type 2 |
| UniProt Protein Name             | Insulin-like growth factor II                                                                                                                |
| UniProt Gene Name                | <b>IGF2</b>                                                                                                                                  |
| UniProt Synonym Gene Names       | IGF-II                                                                                                                                       |
| UniProt Entry Name               | IGF2_HUMAN                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-igf2-active-protein/insulin-like-growth-factor-2/38141>