

Recombinant Human Insulin Like Growth Factor-II (rh IGF-II)

Synonyms: Somatomedin-A, IGF2, INSIGF, pp9974, C11orf43

Introduction: IGF-II 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 and is a candidate gene for eating disorders. There is a read-through which aligns to IGF-II 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.

Description: Recombinant human IGF-II produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton. rh IGF-II is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from a 0.2µm filtered concentrated solution in PBS. The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IGF-II in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IGF-II although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IGF-II should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence: AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS
CDLALLETYC ATPAKSE

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Biological Activity: The ED50, calculated by the dose-dependent induction of MCF-7 cell proliferation was found to be 0.85 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	10 µg	Cat.N°	11343573
<i>medium</i>	50 µg	Cat.N°	11343575
<i>large</i>	250 µg	Cat.N°	11343577
<i>x-large</i>	1000 µg	Cat.N°	11343578

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