

Datasheet**IGF-2****Human Recombinant**

Product	Description	Catalogue-No.	Size
IGF-2	Insulin-like Growth factor, human recombinant	CB-1104201 CB-1104202	10 µg 50 µg

Product description

Synonyms: Somatomedin-A, IGF2, INSIGF, pp9974, C11orf43, FLJ22066, FLJ44734

IGF-2 is a member of the insulin family of polypeptide growth factors that is involved in development and growth. It is a candidate for eating disorders. There is a read-through, INS-IGF-2, which aligns to this gene at the 3'-region and to the upstream INS gene at the 5'-region. Two alternatively spliced transcripts encoding the same protein have been found for this gene. 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.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized IGF-2 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized IGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF-2 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.

Composition

Lyophilized with no additives

Purity: > 97.0% as determined by SDS-PAGE and RP-HPLC

Amino acid sequence:

AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC

ATPAKSE.

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.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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