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Insulin-Like Growth Factor-II, human recombinant (rHuIGF-2)

Catalog No: 50342
Lot No: XXXXX
Source: *E. coli*
Synonyms: Somatomedin-A, IGF2, INSIGF, pp9974, C11orf43, FLJ22066, FLJ44734

Background

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.

Description

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.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a sterile filtered solution containing 0.1% trifluoroacetic acid (TFA).

Solubility

It is recommended to reconstitute the lyophilized IGF2 in sterile 18 MΩ-cm H₂O at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

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

Activity

The activity is determined by the dose dependent proliferation of FDC-P1 cells and is typically 1.4 ng/ml, corresponding to a specific activity of 7.1 x 10⁵ IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.