

IGF2 Human

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.

Catalog #: CYPs-272

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR
GIVECCFRS CDLALLETYC ATPAKSE.

Purity: Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The protein was lyophilized with no additives.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

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.

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.

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