



Pro-Insulin Like Growth Factor-2, HEK, human recombinant (rHupro-IGF2-HEK)

Catalog No: 97562
Lot No: XXXXX
Source: HEK293
Synonyms: Pro-Insulin Like Growth Factor-2, pro-IGF2

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

Pro-IGF2 human recombinant produced in HEK cells is a glycosylated monomer, contains 157 amino acids (24-180) having a total molecular weight of 25 kDa. Pro-IGF2 contains a C-terminal propeptide (E peptide) Arg92 to Lys180 and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Pro-IGF2 was lyophilized in 50 mM sodium acetate pH 4.5 and 350 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized Pro-IGF2 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Stability

Lyophilized Pro-IGF2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Pro-IGF2 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 90% as observed by SDS-PAGE.

Activity

The specific activity was determined by the dose-dependent stimulation of the proliferation of MCF-7 cells (human breast cancer cell line) and is typically 2 - 8 ng/ml.

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.

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