

## pro-IGF2 Human

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

Catalog #: CYP5-117

For research use only.

**Synonyms:** Pro-Insulin Like Growth Factor-2, pro-IGF2.

**Source:** HEK.

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

**Purity:** Greater than 90% as observed by SDS-PAGE.

**Formulation:**

The Pro-IGF2 was lyophilized in 50mM Sodium Acetate pH 4.5 and 350mM NaCl.

**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.

**Usage:**

NeoBiolabs 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 Pro-IGF2 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

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

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