

## DATASHEET

<b>Name</b>	<b>IGF2, REC.HU</b>		
Product	Insulin Like Growth Factor-II, Recombinant Human	Article-No.	40119
Formulation	White powder - lyophilised with no additives	Storage	Freezer at -20°C Prevent freeze-thaw cycles

### Introduction:

Insulin Like Growth Factor-II 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:

Recombinant Human Insulin Like Growth Factor-II produced in *Escherichia Coli* is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton. rHuIGF-II is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Purity:** > 97.0% (RP-HPLC & SDS-PAGE).

### Solubility:

It is recommended to reconstitute the lyophilized rHuIGF-II in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability:

Lyophilised rHuIGF-II, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIGF-II 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).

### Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Tyr-Arg-Pro-Ser.

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**Biological Activity:**

The ED<sub>50</sub>, calculated by the competitive binding of Insulin Like Growth Factor-II plasma derived to human placental membrane is < 1.0 ng/ml, corresponding to a specific activity of 10<sup>6</sup> U/mg.

**Usage:**

Our products are intended for lab research only. Not for human, animal or diagnostic use