



PRODUCT DATA SHEET

Product: IGF-II (recombinant human)

Cat. No.: BC-266 (50 µg)

Description:

Recombinant Human Insulin-Like Growth Factor II (IGF-II). A single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton.

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.

Origin: Produced in *E. coli*.

Format:

Sterile filtered white lyophilized (freeze-dried) powder. Protein was lyophilized with no additives.

Purity:

Greater than 97.0% as determined by RP-HPLC, anion-exchange FPLC, reducing and non-reducing SDS-PAGE. Dimers and aggregates: less than 1% as determined by SDS-PAGE. Endotoxin: less than 0.1 ng/µg (1EU/µg).

Reconstitution:

Reconstitute in sterile 18 MΩ-cm H₂O at not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity:

IGF-II is fully active when compared to standards. The ED₅₀, calculated by the competitive binding of IGF-II to human placental membrane is <1.0 ng/ml, corresponding to a specific activity of 1 x 10⁶ U/mg.

Storage and Stability:

Store desiccated below -18°C. Upon reconstitution IGF-II can be stored at 4°C for up to 7 days, and for future use below -18°C. For long term storage we recommend adding a carrier protein (0.1% HSA or BSA). Avoid freeze / thaw cycles.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.