



PRODUCT DATA SHEET

Product: IGF-I (recombinant rat)

Cat. No.: BC-265 (50 µg)

Description:

Recombinant Rat Insulin-Like Growth Factor I (IGF-I). A single non-glycosylated, polypeptide chain containing 70 amino acids and a molecular mass of 7687 Dalton.

Origin: Produced in *E. coli*.

Format:

Sterile filtered white lyophilized (freeze-dried) powder. Protein was lyophilized after extensive dialysis against 100 mM acetic acid.

Purity:

Greater than 95.0% 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 (1 EU/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-I is fully active when compared to standards. The ED₅₀, calculated by two methods:

1. By stimulation of protein synthesis in rat L6 myoblasts, ED₅₀ was found to be <30 ng/ml.
2. By Type 1 IGF receptor binding assay, ED₅₀ was found to be <10 ng/ml.

Storage and Stability:

Store desiccated below -18°C. Upon reconstitution IGF-I 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.