



Technical Data Sheet

Recombinant Human DES(1-3) Insulin-like Growth Factor-1

Human DES(1-3) IGF-1

Human Des(1-3)Insulin-like Growth Factor-I (IGF-I) is a 67 amino acid analog of human IGF-I lacking the N-terminal tripeptide Gly-Pro-Glu. Human Des(1-3)IGF-I is more potent than IGF-I *in vitro* and *in vivo*. This increased potency is due to reduced binding of human Des(1-3)IGF-I to most of the IGF binding proteins which normally inhibit the biological actions of IGF-I. Human Des(1-3)IGF-I binds to the Type 1 IGF receptor with similar affinity to full length IGF-I.

| | |
|----------------------|---|
| Catalog Number: | RC216-12B |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 7365 kDa, a single non-glycosylated polypeptide chain containing 67 amino acids. |
| Quantity: | 20ug/100ug/1.0mg |
| Protein Sequence: | TLCGAELVDA LQFVCGDRGF YFNKPTGYGS SSRRAPQTGI VDECCFRSCD LRRLEMYCAP LKPAKSA |
| Purity: | >98% by SDS-PAGE and HPLC analyses. |
| Biological Activity: | Fully biologically active when compared to standard. The ED50 as determined by the stimulation of protein synthesis in L6 myoblasts is less than 10 ng/ml. |
| Formulation: | Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.0, 4% mannitol. |
| Endotoxin: | Less than 0.05EU/µg of rHuDES1-3 IGF-1 as determined by LAL method. |
| Reconstitution: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions. |



Bio Basic Inc.

A world leader in serving science

- Storage:** This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
- Usage:** This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.