

## Certificate of Analysis

**IGF-I (resistant to IGFBPs)**  
(recombinant protein expressed in *E. coli*)  
Catalog # 01-189  
Lot # DAM1411316

**Product Description:** Recombinant human IGF-I (E3R) expressed in *E.coli*. IGF-I (E3R) (insulin-like growth factor I) is a 70 amino acid analog of human IGF-I with the substitution of an Arg for Glu at position 3. IGF-I (E3R) is significantly more potent than IGF-I *in vitro* and *in vivo* because IGF-I (E3R) has decreased binding to all IGF binding proteins.

**Purity:** >95% as determined by SDS Page and HPLC analysis. MW = 7.6kDa.

**Sterility:** Filtered through a 0.2 $\mu$  membrane and packaged aseptically.

**Quantity:** 25 $\mu$ g of lyophilized powder. Lyophilized from 100 $\mu$ l 0.1M acetic acid.

**Rehydration:** In 100mM acetic acid or 10mM HCl. When preparing solutions at concentrations of <1mg/ml add a carrier protein to minimize adsorption of peptide to plastic or glass surfaces. Use RIA grade bovine serum albumin at concentrations between 0.1 and 1mg/ml. For use in the presence of fetal bovine serum in cell culture, no carrier protein is necessary.

**Storage and Stability:** Lyophilized: Stable for 2 years at 4°C from date of shipment. Rehydrated: Stable for 3 months at -20°C or -80°C. More dilute solutions are less stable at -20°C. Aliquot rehydrated solutions to avoid repeated freezing and thawing.

**FOR IN VITRO RESEARCH USE ONLY  
NOT FOR USE IN HUMANS OR IN ANIMALS**

---

### Quality Control Testing and Research Applications

**Biological Activity:** Stimulation of protein synthesis in L6 myoblasts: ED<sub>50</sub> = 0.9ng/ml.

---

#### References:

1. Lowe, W.L., In: Insulin-Like Growth Factors: Molecular and Cellular Aspects LeRoith, D., CRC Press Inc. Boca Raton, p49, 1991.
2. LeRoith, D., and C.T. Roberts Jr., Ann. New York Acad. Sci. **692**: 1, 1993.
3. Francis, G.L., J. Mol. Endocrinol. **8**: 213-223, 1992.

"Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals."