



48 Barn Road • Lake Placid, NY 12946
Technical Support: T: 800 548-7853 • F: 518 523-4513
email: techserv@upstate.com
Sales Department: T: 800 233-3991 • F: 781 890-7738
Licensing Dept.: 800 310-4659
www.upstate.com

Certificate of Analysis

IGF-I

(recombinant protein expressed in *E. coli*)

Catalog # 01-208

Lot # 33340

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: Sterilized through a 0.2 μ membrane filter and packaged aseptically.

Formulation: 25 μ g of lyophilized powder. Lyophilized from 100 μ l 0.1M acetic acid.

Storage and Stability: Lyophilized: 2 years at -20°C. Rehydrated: 6 months at -20°C. Rehydrated solutions can be stored for 6 months at -20°C without detectable loss of activity. More dilute solutions stored at -20°C are less stable. Aliquot to avoid repeated freezing and thawing.

Rehydration: In 100mM acetic acid or 10mM HCL. When diluting to concentrations of <1mg/ml, a carrier protein should be added to minimized adsorption of peptide to plastic or glass surfaces. Use RIA grade bovine serum albumin at concentrations between 0.1 and 1mg/ml. A carrier protein is not necessary for use in the presence of fetal bovine serum in cell culture.

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

Quality Control Testing and Research Applications

Biological Activity: Stimulation of protein synthesis in L6 myoblasts: ED₅₀ = 16.2ng/ml as reported by an independent laboratory.
