
Certificate of Analysis

IGF-I

(recombinant protein expressed in *E. coli*)

Catalog # 01-208

Lot # 20751

Source: Recombinant human IGF-I expressed in *E. coli*. Purified by HPLC. Mr ~ 7649Da.

Purity: Single protein band on SDS-PAGE gel.

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

Storage and Stability: Lyophilized: 2 years at 4°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.

Formulation: 25mg/vial. Lyophilized from 100µl 0.1M acetic acid. Lyophilized powder.

Rehydration: In 0.1M acetic acid or 10mM HCl.

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

Quality Control Testing and Research Applications

Biological Activity: Using ViaLight™ HS, Catalog # 30-005, 10ng/ml of this lot supported a 1.7-fold increase in chicken embryo fibroblasts over control cultures without IGF-I. The optimal IGF-I concentration in cell culture can vary depending on cell type.

ViaLight™ is a registered trademark of LumiTech.

IGF Growth Assay Protocol

1. 2 days prior to the assay, seed 100µl of chicken embryo fibroblasts (CEF) in 2% FBS to a density of 5×10^4 cells/ml in a 96 well tissue culture plate.
2. 1 day prior to the assay, serum starve by adding 100µl serum free media to the CEF.
3. On the day of the assay, aspirate off the media and add 100µl **IGF-I** (0.1-20ng/ml) in serum free media. Incubate for 24 hours at 37°C, 5% CO₂. Include appropriate positive and negative controls.
4. Assay using ViaLight™ HS, Catalog # 30-005. Compare readings to control wells containing cells not incubated with IGF-I.