

Insulin-like growth Factor I Reference standard

Cat. No. IGF1-175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Enzyme Unit Each ampoule contains 8.5µg of IGF-I per ampoule (by definition).

Usage No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. For practical purposes each ampoule contains the same quantity of IGF-I. Depending upon intended use, dissolve the total contents of the ampoule in a known volume of a suitable diluent (e.g saline or assay buffer) with carrier protein (0.05 – 0.1% BSA or HSA). The inclusion of carrier protein is also recommended where extensive dilution is required. The ampoules do not contain bacteriostat and a solution of the reagent should not be assumed to be sterile.

Notes This preparation is not for administration to humans. The material is not of human or bovine origin. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability Stability based on HPLC analysis of thermally accelerated degradation samples showed a predicted yearly loss of activity at -20°C of 0.08% and a predicted yearly loss of IGF-1 content at 37°C of 5.9%. These results indicate that the standard is likely to be highly stable under long term storage conditions at -20°C and that the

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material will also be stable during normal shipping at ambient temperatures. They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens];
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGFI; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440

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UniProt ID	P05019
Chromosome Location	12q23.2
Pathway	Adipogenesis, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem;
Function	growth factor activity; hormone activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; integrin binding; protein binding;

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