

Recombinant Human Insulin-like growth Factor 1 Reference standard

Cat. No. IGF1-109H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Standard for insulin-like growth factor-I, consists of a batch of ampoules of lyophilized recombinant DNA-derived human insulin-like growth factor-I prepared by expression in yeast. The preparation is intended to serve as the primary standard for calibration of in vivo and in vitro bioassays for insulin-like growth factor-I.
Species	Human
Source	Yeast
Enzyme Unit	For bioassay: 150 International Units per ampoule, by definition.
Usage	For all practical purposes each ampoule contains the same amount of the above materials. Dissolve the total contents in a known amount of suitable buffer solution with carrier protein (free of peptidase), where extensive dilution is required, to minimise loss by surface adsorption. No attempt should be made to weigh out portions of the freeze-dried powder. For economy of use it is recommended that the solution be subdivided into several small containers, which are frozen rapidly to below -70°C and then stored below -30°C in the dark. Repeated freezing and thawing should be avoided. The material has not been sterilized and the ampoules contain no bacteriostat.
Notes	This preparation is not for administration to humans . The preparation contains material of human origin, and either the final product or the source materials, from

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which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. 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.

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; IGF-I; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440
UniProt ID	P05019

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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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