Recombinant Human Epidermal Growth Factor (1-52) (rDNA derived) Reference standard

Cat. No. EGF-108H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This material is residues 1-52 of the human sequence epidermal growth factor (EGF) synthesized in S. cerevisiae by recombinant DNA technology. EGF (1-52) lacks the carboxyl-terminal arginine of the full length 53-amino acid molecule. The 52- and 53-amino acid forms of EGF were shown to differ in their relative potencies between different assay systems in the study of candidate EGF standards.
Species	Human
Source	S.Cerevisiae
ProteinLength	1-52 a.a.
Enzyme Unit	The nominal content of each ampoule is 1.75 microgram EGF (1-52).
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution The International Reference Reagent is intended for calibration of local standards. For all practical purposes, each ampoule contains the same quantity of EGF. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent. It is recommended that, when possible, buffer containing carrier protein be used to minimize loss by surface adsorption.
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

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	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	Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart. .
Storage	The ampoules are shipped at ambient temperature. Unopened ampoules should be stored at -20 °C in the dark. For economy of use, it is recommended that the reconstituted solution be subdivided into several small containers and stored at, or below, -40 °C . Repeated freezing and thawing should be avoided. The ampoules do not contain bacteriostat and solutions of the ampouled material should not be assumed to be sterile. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.
Full Length	Full L.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens];
Official Symbol	EGF

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Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;
Gene ID	1950
mRNA Refseq	NM_001178130
Protein Refseq	NP_001171601
MIM	131530
UniProt ID	P01133
Chromosome Location	4q25
Pathway	Arf6 signaling events, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem;
Function	calcium ion binding; epidermal growth factor receptor binding; growth factor activity; protein binding; transmembrane receptor protein tyrosine kinase activator activity;

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