

Recombinant Human FGF-7 Reference standard

Cat. No. FGF7-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The KGF used in this preparation is a truncated form, residues 24-163, of the mature human form of the KGF molecule, synthesized in E. coli by recombinant DNA technology.
Species	Human
Source	E.coli
Enzyme Unit	The assigned potency of KGF(24- 163) is 9000 units of KGF(24-163) per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The Reference Reagent is intended for calibration of local standards. For all practical purposes, each ampoule contains the same quantity of KGF(24-163). The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent, for example phosphate buffer. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption. The solvent should be compatible with the assay system used.
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 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

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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is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced.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. Freezing and reuse of reconstituted material should be avoided unless this can be validated for the particular laboratory, storage and assay conditions. 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.

GENE INFORMATION

Gene Name

FGF7 fibroblast growth factor 7 [Homo sapiens];

Official Symbol

FGF7

Synonyms

FGF7; fibroblast growth factor 7; fibroblast growth factor 7 (keratinocyte growth factor); keratinocyte growth factor; KGF; FGF-7; heparin-binding growth factor 7; HBGF-7;

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Gene ID	2252
mRNA Refseq	NM_002009
Protein Refseq	NP_002000
MIM	148180
UniProt ID	P21781
Chromosome Location	15q21.2
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem; FGFR2b ligand binding and activation, organism-specific biosystem; FRS2-mediated cascade, organism-specific biosystem; Glypican 3 network, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem;
Function	chemoattractant activity; growth factor activity; heparin binding; type 2 fibroblast growth factor receptor binding;