



User Manual

Fibroblast Growth Factor-7 (FGF-7/KGF) (Murine)

Cat. No. MEGFP-06073

Description:

Fibroblast Growth Factor-7 (FGF-7/KGF) is one of 23 known members of the FGF family. All FGFs have two conserved cysteine residues and share 30 - 50% sequence identity at the amino acid level. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of variety of tissues, by promoting cellular proliferation and differentiation. KGF-1/FG-7 is a mitogen factor specific for epithelial cells and keratinocytes and signals through FGFR 2b. KGF-1/FGF-7 plays a role in kidney and lung development, angiogenesis, and wound healing.

Source:

Escherichia coli

Unit:

1 mg

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C. Further dilutions should be made in appropriate buffered solutions.

Formulation:

Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 8.0, 1M NaCl.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working

aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Molecular Weight:

Approximately 18.7 kDa, a single, non-glycosylated polypeptide chain containing 163 amino acids.

Endotoxin:

Less than 1 EU/μg of KGF-1 as determined by LAL method.

Usage:

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

Biological Activity:

The ED50 determined by a cell proliferation assay using monkey 4MBr-5 cells is less than 50 ng/mL, corresponding to a specific activity of $> 2.0 \times 10^4$ IU/mg.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder.

AA Sequence:

CNDMSPEQTA TSVNCSSPER HTRSYDYMEG GDIRVRRLLFC RTQWYLRIK
RGKVKGTQEM KNSYNIMEIR TVAVGIVAIAK GVESEYYLAM NKEGKLYAKK
ECNEDCNFKE LILENHYN TY ASAKWTHSGG EMFVALNQKG IPVKGKKTCK
EQKTAHFLPM AIT

Purity:

> 96% by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

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