Technical Data Sheet

Recombinant Mouse Fibroblast Growth Factor7(rMuFGF-7/KGF)

Mouse Fibroblast Growth Factor-7

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.

Catalog Number:	RC235-18
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 18.9 kDa, a single, non-glycosylated polypeptide chain containing 164 amino acids.
Quantity:	2ug/10ug/1mg
AA Sequence:	MCNDMSPEQT ATSVNCSSPE RHTRSYDYME GGDIRVRRLF CRTQWYLRID KRGKVKGTQE MKNSYNIMEI RTVAVGIVAI KGVESEYYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKWTHSG GEMFVALNQK GIPVKGKKTK KEQKTAHFLP MAIT
Purity:	>96% by SDS-PAGE and HPLC analyses.
Biological Activity:	The biological activity was determined by the does-dependent stimulation of thymidine uptake by BaF3 cells expressing KGF receptors yielding an ED_{50} <10ng/ml, corresponding to a Specific Activity of 1.0×10^5 IU/mg.
Formulation:	Lyophilized from a 0.2μm filtered solution in 20mM PB, pH 8.0, 1M NaCl.
Endotoxin:	Less than 1EU/μg of rMuKGF-1 as determined by LAL method.
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.

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**.

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