

Recombinant Mouse Fgf10 protein

Cat. No. Fgf10-561M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf10 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	173
Description	Fibroblast growth factor 10 belongs to the fibroblast growth factor (FGF) family, which is involved in a variety of biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Like most other FGF family members, FGF-10 also has a heparin-binding domain and plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may take parts in wound healing and is required for normal branching morphogenesis. Recombinant murine FGF-10 contains a 173 amino acids and it shares 94 % and 100 % a.a. sequence identity with human and rat FGF-10.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 2 × PBS, 600 mM NaCl, pH 7.4, 1 mM mercaptoethanol.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg.

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Molecular Mass	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 173 amino acids.
AA Sequence	QALGQDMVSQEATNCSSSSSSSFSSPSSAGRHVRSYNHLQGDVRWRRLFSFTKYFL TIEKNGKVSGTKNEDCPYSVLEITSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNN DCKLKERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLP MTIQT
Endotoxin	Less than 1 EU/g of rMuKGF-2/FGF-10 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Fgf10
Official Symbol	Fgf10
Synonyms	FGF10; fibroblast growth factor 10; keratinocyte growth factor 2; Fgf-10; BB213776;

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Gene ID	14165
mRNA Refseq	NM_008002
Protein Refseq	NP_032028
UniProt ID	O35565

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