

Recombinant Mouse Fgf17 protein

Cat. No. Fgf17-8333M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf17 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	194
Description	FGF-17 is a member of the FGF superfamily of heparin-binding mitogenic molecules characterized by the presence of a core, 120 amino acid (aa) beta-trefoil structure. The mRNA of FGF-17 was found in midgestation of embryo and multiple adult tissues, and is preferentially expressed in specific sites, such as embryonic brain, developing skeleton and arteries.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 700 mM NaCl, with 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is less than 10 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^5$ IU/mg in the presence of 10 µg/ml of heparin.
Molecular Mass	Approximately 22.5 kDa, a single non-glycosylated polypeptide chain containing 194 amino acids.

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AA Sequence	TQGENHPSPNFNQYVRDQGAMTDQLSRRQIREYQLYSRTSGKHHVQVTGRRISATA EDGNKFAKLIVETDTFGSRVRIKGAESEKYICMNKRGLIGKPSGKSKDCVFTEIVLE NNYTAFQNNARHEGWFMATRQGRPRQASRSRQNRQEAHFIRLYQGQLPFPNHA ERQKQFEFVGSAPTRRTKRTRRPQSQT
Endotoxin	Less than 0.1 EU/g of rMuFGF-17 as determined by LAL method.
Purity	>98% 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 PBS 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	Fgf17
Official Symbol	Fgf17
Synonyms	FGF17; fibroblast growth factor 17; FGF-17;
Gene ID	14171
mRNA Refseq	NM_008004

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Protein Refseq	NP_032030
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UniProt ID	P63075
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