

PrimeGene™ Recombinant Murine Fibroblast Growth Factor-17
a biotechne brand (rMuFGF-17)

PrimeGene Technical Data Sheet

Catalog Number:	124-17
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 22.5 kDa, a single non-glycosylated polypeptide chain containing 194 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	TQGENHPSPN FNQYVRDQGA MTDQLSRRQI REYQLYSRTS GKHVQVTGRR ISATAEDGNK FAKLIVETDT FGSRVRIKGA ESEKYICMNK RGKLGKPSG KSKDCVFTEI VLENNYTAFAQ NARHEGWFMA FTRQGRPRQA SRSRQNQREA HFIKRLYQGQ LPFPNHAERQ KQFEFVGSAP TRRTKRTRRP QSQT
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ 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 × 10 ⁵ IU/mg in the presence of 10 µg/ml of heparin.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 700 mM NaCl, with 0.02 % Tween-20.
Endotoxin:	Less than 0.1 EU/µg of rMuFGF-17 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 PBS 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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Murine Fibroblast Growth Factor-17

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.