

Recombinant Murine Fibroblast Growth Factor 17

#R00259

Size: 5 µg/100 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

TQGENHPSPNFNQYVRDQGAMTDQLSRRQIREYQL
YSRTSGKHVQVTGRRISATAEDGNKFAKLIVETDTFG
SRVRIKGAESEKYICMNRGKLGKPSGKSKDCVFTEI
VLENNYTAFAQNARHEGWFMFAFTRQGRPRQASRSRQ
NQREAHFIKRLYQGQLPFPNHAERQKQFEFVGSAPT
RRTKRTRRPQSQT

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.

Product Specification

Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 22.5 kDa, a single non-glycosylated polypeptide chain containing 194 amino acids.
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	Sterile Filtered White Lyophilized

Appearance	(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.