

Fgf18

Recombinant Mouse Fibroblast Growth Factor-18

Catalog No. CS491A Quantity: 5 μg

CS491B 25 μg CS491C 1 mg

Description: FGF-18 is encoded by the FGF18 gene. By phylogenetic analysis and gene location

analysis, FGF-18 belongs in the FGF-8 subfamily which has three members: FGF-8, FGF-17 and FGF-18. Using FGF knockout mice model, members of this subfamily were tested and found to have critical roles in embryonic development. FGF-18–/– mice have decreased expression of osteogenic markers and delayed long-bone ossification. FGF-18 has been shown *in vitro* to induce neurite outgrowth in PC12 cells. In addition, it also

has a significant role in lung development and has an anabolic effect on cartilage

formation.

Recombinant Mouse Fibroblast Growth Factor-18 is a single non-glycosylated

polypeptide chain containing 180 amino acids.

 Gene ID:
 14172

 Source:
 E. coli

 Molecular Weight:
 21.1 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, + 500 mM NaCl.

Purity: >95 % by SDS-PAGE and HPLC analyses. Endotoxin Level: <1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ determined by thymidine

uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml.

Specific Activity: >2.0 × 10^6 IU/mg in the presence of 1 µg/ml of heparin.

Amino Acid Sequence: EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG

EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR

YPKGQAELQK PFKYTTVTKR SRRIRPTHPG

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a

concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered

solutions.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for

long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots

E-mail: info@cellsciences.com

Website: www.cellsciences.com

and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

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Toll Free: 888-769-1246

Phone: 781-828-0610

Fax: 781-828-0542