

32-6352: FGF17 Mouse

Application : Functional Assay

Alternative Name : Fibroblast growth factor 17, FGF-17, FGF17, FGF-13, HH20.

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

Fibroblast Growth Factor 17 (FGF17) is a part of the fibroblast growth factor family. FGF family members have broad mitogenic and cell survival activities, and are involved in various biological processes including morphogenesis, embryonic development cell growth, , tissue repair, tumor growth and invasion. The FGF17 gene is highly expressed in the cerebellum and cortex. The mouse homolog of the FGF17 gene is localized to specific sites in the midline structures of the forebrain, the midbrain-hindbrain junction, developing skeleton and developing arteries, suggesting a part in central nervous system, bone and vascular development.

Fibroblast Growth Factor 17 Mouse Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 194 amino acid and having a molecular mass of approximately 22.5kDa. FGF17 is purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 0.02 % Tween-20 and 700 mM NaCl.

Content : It is recommended to reconstitute the lyophilized Fibroblast Growth Factor 17 in sterile PBS not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage condition : Lyophilized FGF17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor 17 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid : TQGENHPSPN FNQYVRDQGA MTDQLSRRQI REYQLYSRTS GKHVQVTGRR ISATAEDGNK FAKLIVETDT FGSRVRIKGA ESEKYICMNK RGKLIGKPSG KSKDCVFTEI VLENNYTAFQ NARHEGWFFMA FTRQGRPRQA SRSRQNQREA HFIKRLYQQG LPFPNHAERQ KQFEFVGSAP TRRTKRTRRP QSQT.

Application Note

The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is < 10 ng/ml, corresponding to a specific activity of > 1.0 × 10⁵ IU/mg in the presence of 10 µg/ml of heparin.