FGF basic (mouse), (recombinant)

Fibroblast growth factors (FGFs) are a 22 member family of proteins known to be involved in angiogenesis, wound healing and embryonic development. As a family, they bind to heparin and signal through four receptor tyrosine kinases called, FGFR1, 2, 3 and 4. Although the mechanism remains unclear, FGF-basic, or FGF-1, is a critical component in keeping human embryonic stem cells undifferentiated in cell culture systems.

Ordering Information

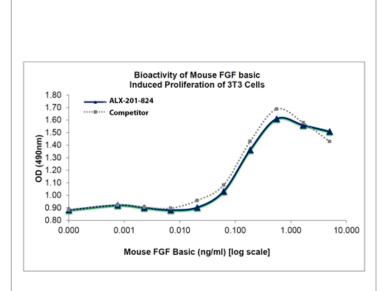
Order Online »

ALX-201-824-0010	10µg
ALX-201-824-0050	50µg
ALX-201-824-0100	100µg

Manuals, SDS & CofA

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• Carrier-free



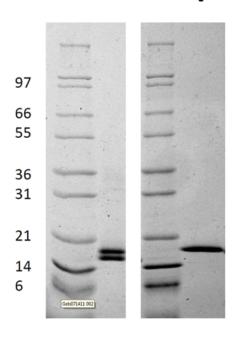


Figure 1: Mouse FGF basic Bioactivity Data. Serial dilutions of mouse FGF Basic, starting at 5ng/ml, were added to NIH 3T3 cells. Cell proliferation was measured after 41 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 for this lot of mouse FGF Basic was 0.1-0.16ng/ml. This value is comparable with the typical expected range of < 1ng/ml.

Figure 2: 1 μ g in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% TRIS-Glycine gel, stained with Coomassie Blue. Mouse FGF-basic has a predicted MW of 17.2 kDa.

Handling & Storage

Use/Stability It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term

storage.

Handling Centrifuge the vial before opening the cap. After reconstitution, prepare aliquots and

store at -20°C.

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name FGF2, HBGF-2, Prostatropin

Appearance White lyophilized (freeze-dried) powder.

Biological Activity The activity is determined by the dose-dependent proliferation of BALB/3T3 cells which

is typically observed at concentations <1ng/ml.

Endotoxin Content ≤1 EU/µg protein measured by kinetic LAL analysis.

Formulation Lyophilized from 5mM Na₂PO₄, pH 7.5 and 50mM sodium chloride. Sterile filtered.

MW ~16.3kDa

Purity ≥95% (Reducing and Non-reducing SDS-PAGE)

Reconstitution When reconstituting the product, gently pipet and wash down the sides of the vial to

ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be

further diluted into other aqueous solutions.

Source Produced in *E. coli*. Non-glycosylated protein, containing 145 amino acids.

UniProt ID p15655



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