

Recombinant Mouse Fibroblast Growth Factor-basic (rm FGF-b / FGF-2)

FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. FGF-b has been implicated in diverse biological processes, such as limb and nervous system development, wound healing and tumor growth. The mRNA for this gene contains multiple polyadenylation sites and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of FGF-b.

The heparin-binding growth factors are angiogenic agents *in vivo* and are potent mitogens for a variety of cell types *in vitro*. There are differences in the tissue distribution and concentration of these 2 growth factors.

Recombinant mouse FGF-basic produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 145 amino acids and having a molecular mass of 16.3 kDa.

Synonyms :	HBGH-2, HBGF-2, Prostatropin
Source:	<i>Escherichia coli</i>
AA Sequence:	The sequence of the first five N-terminal amino acids was determined and was found to be Pro-Ala-Leu-Pro-Glu.
Formulation:	Lyophilisate from a 0.22 µm filtered solution after extensive dialysis against 20mM phosphate buffer, pH 7.2, 50mM Na ₂ SO ₄ , 0.2mM DTT 0.2mM EDTA.
Reconstitution:	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
Stability:	The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm FGF-b is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.
Biological Activity:	Determined by the dose-dependant proliferation of BALB/3T3 cells the ED50 is < 0.5 ng/ml
Purity:	95% (verified by SDS-PAGE / silver stain)
Endotoxicity:	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
Order N°:	rm FGF-b+Size available sizes: 10 µg, 50 µg

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