

Recombinant Mouse Fibroblast Growth Factor-acidic (rm FGF-a / FGF-1)

FGF-acidic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues by promoting cellular proliferation and differentiation. FGF-acidic is a non-glycosylated heparin binding growth factor that is expressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes and endothelial cells. FGF-acidic has the ability to signal through all the FGF receptors.

Recombinant murine FGF-acidic produced in E.coli is a 15.9 kDa protein consisting of 141 amino acid residues.

Synonyms : HBGF-1, ECGF-beta, FGFIBP, FIBP-1

Source: *Escherichia coli*

AA Sequence: MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE
SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS
KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium acetate pH 6.5 + 250 mM NaCl.

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-a 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: The ED₅₀ as determined by its ability to induce IL-10 secretion in Colo205 cells is less than 0.5ng/ml, corresponding to a specific activity of 2.0 x 10⁶ IU/mg.

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-a+Size
available sizes: 10 µg, 50 µg

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