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Certificate of Analysis

Recombinant Murine FGF-acidic

Catalog# 450-33A

Lot # 0907422

Expiration Date: October 2012

Source: *E.coli*

Sequence: MFNLPLGNYK KPKLLYCSNG GHFLRILPDG
TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT
EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAEKWNFV
GLKKNGSCKR GPRTHYGOKA ILFLPLPVSS D

Synonyms: Fibroblast Growth Factor-acidic, FGF-1,
HBGF-1, ECGF-beta

Description: 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 is a 15.9 kDa protein consisting of 141 amino acid residues.

Purity: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng / μ g of FGF-acidic (< 1 EU/ μ g).

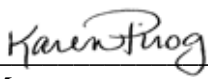
Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Sodium Phosphate, pH 7.2 + 100 mM NaCl.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in 5mM Sodium Phosphate, pH 7.0-7.2 to a concentration of 0.5-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage/Stability: The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Biological activity: Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED₅₀ is ≤ 0.5 ng/ml in the presence of 10 ug/ml heparin, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.

Country of Origin: USA



QC Manager

Usage: For Research Use Only. Not for use in diagnostic or therapeutic procedures.