9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

FGF 1 Mouse

Fibroblast Growth Factor-Acidic Mouse Recombinant
GRF0055

Product Overview

Name	FGF 1 Mouse
Description	
Fibroblast Growth Factor-Acidic Mouse Recombinant	
Accession (Primary)	P61148
Synonyms	
HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a.	
Introduction	
Acidic fibroblast growth factor is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. The 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.5.	
Stability	
Lyophilized Fibroblast Growth Factor-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D.

Biological Activity

The ED 50 as determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells, is less than 0.2ng/ml corresponding to a Specific Activity of 5x10 6 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Differentiation of human embryonic stem cells into bipotent mesenchymal stem cells Publications: Stem cells 24.8 (2006): 1914-1922. Link: FGF 1 Mouse prospec publication

Precautions

FGF 1 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P61148)