



FGF acidic Recombinant Protein

CATALOG NUMBER: 40-493

Specifications

SPECIES:	Murine
SOURCE SPECIES:	E. coli
SEQUENCE:	MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAENWFV GLKKN GSCKR GPRTHYGQKA ILFLPLPVSS D
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	Assay 1: The ED50 was determined by the dose - dependent stimulation of thymidine uptake by 3T3 cells in the presence of heparin is ≤ 0.5 ng/mL corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg. Assay 2: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.2 ng/mL in the presence of 10 ug/mL heparin, corresponding to a specific activity of $\geq 5 \times 10^6$ units/mg.

Properties

PURITY:	Greater than 95% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized FGF acidic recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted FGF acidic is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing FGF acidic recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	Fam, Fgfa, Dffrx, Fgf-1, Fibroblast growth factor 1, Acidic fibroblast growth factor, FGF-1
ACCESSION NO.:	NP_034327.1
PROTEIN GI NO.:	6753850

Background

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.

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