



Recombinant Human FGF-basic Protein

Catalog Number:PLP100016

Gene Name	BFGF, FGF-2, FGFB, HBGF-2
Accession#	P09038
Source	<i>E.coli</i>
Expression Region	Ala135 - Ser288
Tag	Tag-free
Molecular Weight	16.5kDa
Purity	≥95 %
Endotoxin Level	<0.01 EU/μg as determined by LAL test
Bioactivity	The ED50 as determined by a cell proliferation assay using balb/c 3T3 cells is 0.1 ng/ml.
Host Cell Protein	<0.5 ng/μg of protein tested by ELISA
Host Cell DNA	<0.02 ng/μg of protein tested by qPCR
Mycoplasma	Negative
Sterility	The sterility testing was performed by membrane filtration method
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH7.4 with protectants.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in distilled water to a concentration more than 100 μg/ml.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Please avoid repeated freeze-thaw cycles.

SDS-PAGE

Bioactivity

Flow Cytometry



Background

FGF-basic is a members of the Fibroblast Growth Factors (FGFs) family. The family constitutes a large family of proteins involved in many aspects of development including cell proliferation, growth, and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. vascular repair, traumatic brain injury (TBI). FGF-basic is a critical component of human embryonic stem cell culture medium. In addition, FGF-basic protein is a heparin-binding cationic protein involved in a variety of pathological conditions including angiogenesis and solid tumour growth. Thus, FGF-basic is regarded as a target for cancers chemopreventive and therapeutic strategies.