FGF-basic Murine E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Murine
Other names: Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin

Cat. No.:

RBG20068010	(10 µg)
RBG20068050	(50 µg)
RBG20068100	(100 µg)

Description

FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation 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. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4. Recombinant Murine FGF-basic is a 16.3 kDa protein consisting of 145 amino acid residues.

Research topic

Cardiovascular disease, Coronary artery disease, Neural tissue markers, Oncology

Amino Acid Sequence

PALPEDGGAA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS

Source

E. coli

Purity

95%

Biological Activity

Assay #1: The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ? 0.1 ng/ml corresponding to a specific activity of ? 1×10^7 units/mg.
Assay #2: The ED_{50} was determined by a cell proliferation assay using balb/c 3T3 cells is ? 1.0 ng/ml, corresponding to a specific activity of ? 1×10^6 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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/Shelf Life

-20°C

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