FGF-basic Rat E. coli

Product Data Sheet

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

Cat. No.:

RBG30055010	(10 µg)
RBG30055050	(50 µg)
RBG30055100	(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 Rat 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

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

E. coli

Purity

95%

Biological Activity

The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by 3T3 cells is ? 0.2 ng/ml corresponding to a specific activity of ?5×10^6 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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