FGF-acidic Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Fibroblast Growth Factor-acidic, FGF-1, HBGF-1, ECGF-beta

Cat. No.:

RBG10132010	(10 µg)
RBG10132050	(50 µg)
RBG10132100	(100 µg)

Description

FGF-acidic 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-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 Human FGF-acidic is a 16.8 kDa protein consisting of 141 amino acid residues.

Research topic

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

Amino Acid Sequence

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MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP
NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D
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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 ? 10 ng/ml, corresponding to a specific activity of ? 1×10^5 units/mg.
Assay #2: The ED_{50} was determined by a cell proliferation assay using balb/c 3T3 cells is ? 0.5 ng/ml in the presence of 10 µg/ml heparin, corresponding to a specific activity of ? 2×10^6 units/mg.

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 5mM Sodium Phosphate, pH 8.0 to a concentration of <0.5 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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