FGF-8 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Fibroblast Growth Factor-8, FGF-8b, AIGF, HBGF

Cat. No.:

RBG10137005	(5 µg)
RBG10137025	(25 µg)
RBG10137100	(100 µg)

Description

FGF-8 (FGF-8b) is a heparin binding growth factor belonging to 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. There are 4 known alternate spliced forms of FGF8; FGF-8A, FGF-8B, FGF-8E and FGF-8F. The human and murine FGF-8A and B are identical, unlike human and mouse FGF-8E and F, which are 98% identical. FGF-8 targets mammary carcinoma cells and other cells expressing the FGF receptors. Recombinant Human FGF-8 (FGF-8b) is a 22.5 kDa protein consisting of 194 amino acid residues.

Research topic

Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease, Oncology

Amino Acid Sequence

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MQVTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG
AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMKRLPRG
HHTTEQSLRF EFLNYPPFTR SLRGSQRTWA PEPR
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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 BaF3 cells expressing FGF- receptors is ? 0.5 ng/ml, 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 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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