PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant FGF-basic (145aa), Human

Catalog Number: BK0053-50µg Source: Escherichia coli. Quantity: 50µg

Description:

Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the β trefoil structure. In vivo, FGF-basic is produced by a variety of cells, including cardiomycotes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.Recombinant Human FGF-basic (145a.a.)produced in E.coli is a single non-glycosylated polypeptide chain containing 145 amino acids. A fully biologically active molecule, rhFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

16.4 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 0.25 ng/mL, measured by the cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 4 \times 10^6 units/mg

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

ALPEDGSSGAFPPGHFKDPKRLYCKNGGFFLRI-HPDGRVDGVREKSDPHI KLQLQAEERGVVSIKGVCANRYLAMKED-GRLLASKCVTDECFFFERLESN NYNTYRSRKYTSWYVALKRTGQYKLG-SKTGPGQKAILFLPMSAKS

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human FGF-basic (145a.a.) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human FGF-basic (145a.a.) should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

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