

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-basic, Mouse

Catalog Number: BK0057-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Fibroblast Growth Factor-basic (FGF-basic), also known as HBGF-2, is a non-glycosylated heparin-binding growth factor that belongs to the FGF family. FGF-basic is present in basement membranes and in the subendothelial extracellular matrix of blood vessels. FGF-basic signals through FGFR1, 2, 3 and 4 that plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rmFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

16.4 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 0.5 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 2.0 × 10⁶ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MPALPEDGGAAFPFGHFKDPKRLYCKNGGFLL-
RIHPDGRVDGVREKS-
DPHVKLQLQAEERGVSISIKGVCANRYLAMKED-
MKEDGRLLASKCVTEECFFFERLESNNYNTYRS-
GRLLASKCVTEECFFFERLESNNYNTYRS-
RKYSSWYVALKRTGQYKLGSKTGPGQKAIL-
FLPMSAKS

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μg/ml.

Storage:

Lyophilized recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmFGF-basic should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

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