PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant FGF-18, Human

Catalog Number: BK0037-1mg Source: Escherichia coli. Quantity: 1mg

Description:

Fibroblast Growth Factor-18 (FGF-18) is a heparin-binding growth factor that is a member of the FGF family. FGF-18 signals throμgh FGFR 1c, 2c, 3c, and 4. FGF-18 plays an important role in the regulation of cell proliferation, cell differentiation and cell migration. FGF-18 is required for normal ossification and bone development. It can also stimulate hepatic and intestinal proliferation.Recombinant human Fibroblast Growth Factor-18 (rhFGF-18) produced in E.coli is a single non-glycosylated polypeptide chain containing 174 amino acids. A fully biologically active molecule, rhFGF-18 has a molecular mass of 20.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

20.3 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 10 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 1.0× 10ˆ5units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MAEENVDFRIHVE-
NQTRARDDVSRKQLRLYQLYSRTSGKHIQVLGR
RISARGEDGDKYAQLL-
VETDTFGSQVRIKGKETEFYLCMNRKGKLVGKP
DGTSKECVFIEKVLENNYTALMSAKYSGWY-
VGFTKKGRPRKGPK-
TRENQQDVHFMKRYPKGQPELQKPFKYT-
TVTKRSR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μg/ml.

Storage:

Lyophilized recombinant human Fibroblast Growth Factor-18 (rhFGF-18) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, rhFGF-18 should be stable up to 2 weeks at 4 ℃ or up to 3 months at -20 ℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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