

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-9, Human

Catalog Number: BK0049-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Fibroblast Growth Factor-9 (FGF-9) is a heparin binding growth factor that belongs to the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-9 was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Recombinant Human Fibroblast Growth Factor-9(rhFGF-9) produced in E.coli is a single non-glycosylated polypeptide chain containing 208 amino acids. A fully biologically active molecule, rhFGF-9 has a molecular mass of 23.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

23.4 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 2.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of >5.0 × 10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MAPLGEVGNVYFGVQDAVDFGNNVPLPVD-
SPVLLSDHLGQSEAGGLPRGPAVTDLDHLKGL-
RRRQLYCRTGFHLEIFPNGTIQGTRK-
DHSRFGILEFISIAVGLVSIRGVDSGLYL-
GMNEKGELYGSEKLTQECVFREQFEEN-
WYNTYSSNLYKHVDTGRRYYVAL-
NKDGTREGTRTKRHQKFTH-
FLPRPVDVDPKVPELYKDILSQS

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μg/ml.

Storage:

Lyophilized recombinant Human Fibroblast Growth Factor-9(rhFGF-9) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-9 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

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