

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-8, Human

Catalog Number: BK0044-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Fibroblast Growth Factor-8 (FGF-8) is a heparin-binding growth factor of the FGF family. There are 4 known forms of FGF8 produced by alternative splicing: FGF8a, FGF-8b, FGF-8e and FGF-8f. The human and mouse FGF8b are identical of aa sequences. FGF-8 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. FGF-8 is required for normal brain, eye, ear and limb development during embryogenesis. It is also required for normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Recombinant human Fibroblast Growth Factor-8 (rhFGF-8) produced in E.coli is a single non-glycosylated polypeptide chain containing 194 amino acids. A fully biologically active molecule, rhFGF-8 has a molecular mass of 22.5kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

22.5kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 < 5.0 ng/ml, measured by a cell proliferation assay using 3T3 cells in the presence of 1µg/ml of heparin, corresponding to a specific activity of > 2.0 × 10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MQVTVQSSPNFTQHVREQSLVTDQLSRRLIR-
TYQLYSRTSGKHKVQVLANK-
RINAMAEDGDPFAKLIVETDTEFGS-
RVRVRGAETGLYICMNKKGKLIK-
SNGKGDVCFTEIVLENNYTALQNAKYEG-
WYMAFTRKGRPRKGSKTRQHQREVHFMKRL-
PRGHHTTEQSLRFEFLNY-
PPFTRSLRGSQRTWAPEPR

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 µg/ml.

Storage:

Lyophilized recombinant human Fibroblast Growth Factor-8 (rhFGF-8) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-8 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

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