

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-8e, Human

Catalog Number: BK0047-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Fibroblast Growth Factor 8e (FGF-8e) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. FGF-8 has 8 different isoforms, named FGF-8a through FGF-8h. Different FGF-8 isoforms have different receptor affinities, and thus participate in different signaling cascade pathways. FGF-8 has widespread expression during embryonic development, promoting gastrulation, somitogenesis, morphogenesis, and limb formation. FGF-8 also has oncogenic potential. While in normal cells FGF-8 is expressed at very low levels, in breast, prostate and ovarian cancer FGF-8 is highly expressed. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and inducing osteoblastic differentiation. Recombinant Human FGF-8e produced in E.coli is a single non-glycosylated polypeptide chain containing 212 amino acids. A fully biologically active molecule, rhFGF-8e has a molecular mass of 24.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

24.3 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE

Biological Activity:

ED50 < 2.5 µg/ml in the presence of 1 µg/mL heparin, measured in a cell proliferation assay using 3T3.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MQEGPGRGPALGRELASLF-
RAGREPQGVSQQHVREQLVTDQLSRRLIR-
TYQLYSRTSGKHVQVLANK-
RINAMAEDGDPFAKLIVETDTEFGS-
RVRVIRGAETGLYICMNKKGKLIK-
SNGKGDVCFTEIVLENNYALQNAKYEG-
WYMAFTRKGRPRKGSKTRQHQREVHFMKRL-
PRGHHTTEQSLRFEFLNY-
PPFTRSLRGSQRTWAPEPR

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human FGF 8e remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human FGF 8e should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

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