

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Fibroblast Growth Factor-9 (rHuFGF-9)

Catalog Number: PR1027

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

Fibroblast growth factor 9 (FGF9) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino acid (aa) FGF domain that allows for a common tertiary structure. FGF-9 targets glial cells, astrocytes cells and other cells that express the FGFR 1c, 2c, 3b, 3c, and 4.

Molecular Weight:

Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

A P L G E V G N Y F G V Q D A V P F G N V P V L P V
D S P V L L S D H L G Q S E A G G L P R G P A V T D L
D H L K G I L R R R Q L Y C R T G F H L E I F P N G T I

Q G T R K D H S R F G I L E F I S I A V G L V S I R G V
D S G L Y L G M N E K G E L Y G S E K L T Q E C V F R
E Q F E E N W Y N T Y S S N L Y K H V D T G R R Y Y
V A L N K D G T P R E G T R T K R H Q K F T H F L P R
P V D P D K V P E L Y K D I L S Q S

Endotoxin:

Less than 1EU/mg of rHuFGF-9 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $< -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable for several weeks at $2-8^{\circ}\text{C}$, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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