

FGF-9, Human

Cat. No.: Z02890-20

Size: 20.0 ug

Synonyms: FGF-9, Human;

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 (a.a.) 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.

Amino Acid Sequence:

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00001 APLGEVGNFY GVQDAVDFGN VPVLPVDSV LLSDHLGQSE
00041 AGGLPRGPAV TDLHLKGLL RRRQLYCRTG FHLEIFPNGT
00081 IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLGMNEK
00121 GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR
00161 YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY
00201 KDILSQS
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Source: *E. coli*

Species: Human

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10⁶ IU/mg.

Molecular Weight: Approximately 23.3 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.

Formulation: Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/μg of rHuFGF-9 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °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 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.