

Human FGF-9

Human Fibroblast Growth Factor-9, recombinant

Synonyms: HBGF-9, GAF (Glia-activating factor)

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	1378.950.005		
20 µg	1378.950.020		
1 mg	1378.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant Human Fibroblast Growth Factor-9 (FGF-9) is a 207 amino acid protein, with a molecular mass of 23,4 kDa. It is a secreted heparin-binding growth factor belonging to the fibroblast growth factor (FGF) family. FGF family members possess extensive mitogenic and cell survival functions, and are involved in various biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. In nervous system, FGF-9 is produced mainly by neurons and may be important for glial cell development. FGF-9 signals through FGFR 1c, 2c, 3b and 4.

- **Biological Activity** $\geq 2 \times 10^6$ units/mg
- **Source** *E. Coli*
- **Purity** $\geq 95\%$ (SDS-PAGE, HPLC)
- **Endotoxin level** $\leq 0.1\text{ng}/\mu\text{g}$ ($\leq 1\text{EU}/\mu\text{g}$)
- **Stabilizer** None
- **Buffer** PBS (1x)*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ of $\leq 0.5\text{ng}/\text{ml}$ was determined by the dose-dependent stimulation of thymidine uptake of BaF3 cells expressing FGFRs. It corresponds to a specific activity of $\geq 2 \times 10^6$ units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of at least 100 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week or in working aliquots at -20°C to -80°C. Working aliquots should be at the highest practical concentration. For long term storage we recommend to add at least 0.1% HSA (order number: 2835.955.xyz or 2835.958.xyz) or BSA.

Stability

The lyophilized protein is stable at room temperature for up to 1 month and at least until the lot specific expiry date if kept below -18°C. Reconstituted FGF-9 should be stored in working aliquots at -20°C to -80°C if possible with carrier protein. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

APLGEVGNFYF GVQDAVPFGN VPVLPVDSPV LLSDDLQSE AGGLPRGPAV TDLHLKGIL RRRQLYCRTG
 FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLGMNEK GELYGSEKLT QECVFREQFE
 ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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