

APENBIC Recombinant Human FGF-9

Information

Gene ID	2254			
Accession #	P31371			
Alternate Names	GAF, Glia-activating factor, HBGF-9			
Source	Escherichia coli.			
M.Wt	Approximately 23.3 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.			
AA Sequence	APLGEVGNYF GVQDAVPFGN VPVLPVDSPV LLSDHLGQSE AGGLPRGPAV TDLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLGMNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS			
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.			
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month. 2 to 8 °C under sterile conditions after reconstitution.			
	- 3 months, -20 to -70 °C under sterile conditions after reconstitution.			
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.			
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in $1 \times PBS$ to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.			
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.			
Shipping Condition	Gel pack.			
Handling	Centrifuge the vial prior to opening.			
Usage	For Research Use Only! Not to be used in humans.			
Components and Storage				

Components and Storage -

Components	5 µg	100 µg	500 µg
Recombinant Human FGF-9	5 µg	100 µg	500 µg

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- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Quality Control		el Que
Purity	> 95 % by SDS-PAGE and HPLC analyses.	Person concernent
Endotoxin	Less than 1 EU/µg of rHuFGF-9 as determined	by LAL method.

Description

Fibroblast growth factor-9 (FGF-9) is a member of the fibroblast growth factor (FGF) family. 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 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. FGF-9 is a monomer and interacts with FGFR1, FGFR2, FGFR3 and FGFR4. The human FGF-9 shares 98 % a.a. sequence identity with mouse, rat, equine, porcine, and bovine FGF-9.

Reference

- 1. Miyamoto MNaruo K, Seko C, et al. 1993. Mol Cell Biol. 13:4251-9.
- 2. Santos-Ocampo S, Colvin JS, Chellaiah A, et al. 1996. J Biol Chem. 271:1726-31.
- 3. Chellaiah A, Yuan W, Chellaiah M, et al. 1999. J Biol Chem. 274:34785-94.

