Active Recombinant Rat Fgf9

Cat. No. Fgf9-586R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Fgf9 produced in E. coli is approximately 23.1 kDa, a single non-glycosylated polypeptide chain containing 205 amino acids.
Species	Rat
Source	E.coli
Description	Fibroblast growth factor 9 (FGF-9) 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.
Form	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM Tris, 400 mM NaCl, pH8.0.
Bio-activity	Fully biologically active when compared to standard. The ED 50 determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1 ng/ml, corresponding to a specific activity of >1.0 × 10^6 IU/mg.
Molecular Mass	23.1 kDa
AA Sequence	LGEVGSYFGV QDAVPFGNVP VLPVDSPVLL SDHLGQSEAG GLPRGPAVTD LDHLKGILRR RQLYCRTGFH LEIFPNGTIQ GTRKDHSRFG ILEFISIAVG LVSIRGVDSG LYLGMNEKGE LYGSEKLTQE CVFREQFEEN WYNTYSSNLY

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	KHVDTGRRYY VALNKDGTPR EGTRTKRHQK FTHFLPRPVD PDKVPELYKD ILSQS
Endotoxin	Less than 1 EU/μg of rRtFGF-9-1 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend that this vial be briefy 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="" centigrade.="" further="" dilutions="" should="" be="" made="" in="" appropriate="" buffered="" solutions.="">

GENE INFORMATION

Gene Name	Fgf9 fibroblast growth factor 9 [Rattus norvegicus]
Official Symbol	Fgf9
Synonyms	FGF9; fibroblast growth factor 9; GAF; FGF-9; HBGF-9; glia-activating factor;
Gene ID	25444

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mRNA Refseq	NM_012952
Protein Refseq	NP_037084
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem; FGFR2c ligand binding and activation, organism-specific biosystem; FGFR3 ligand binding and activation, organism-specific biosystem;
Function	fibroblast growth factor receptor binding; growth factor activity; heparin binding;

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