HB220214

Recombinant Mouse Fibroblast growth factor 9

(Mouse FGF-9)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Fibroblast growth factor 9 (Mouse FGF-9)	91318ES10	10μg
	91318ES60	100μg
	91318ES76	500μg

Product Description

Fibroblast growth factor-9, also called FGF-9, is an approximately 26 kDa secreted glycoprotein of the FGF family. Secreted human FGF-9 is a 205-207 aa protein that lacks the N-terminal 1-3 aa and shares 98% sequence identity with mouse, rat, equine, porcine and bovine FGF-9. In addition to FGF R3 (IIIb), FGF-9 binding to the IIIc splice forms of FGF R1, R2 and R3 are variably reported. FGF-9 is an autocrine/paracrine growth factor considered to be important for the growth and survival of motorneurons and prostate. Meanwhile, FGF9 is a potent mitogen and survival factor required for morphogenesis during embryonic development and numerous biological functions at adulthood. FGF9 have been shown to improve systolic function after myocardial infarction in a clinical trial. FGF9 promotes cardiac vascularization during embryonic development but is only weakly expressed in the adult heart.

Product Properties

Synonyms	FGF9, FGF-9, Glia-activating factor, GAF, glia-activating factor, HBFG-9, HBGF-9
Accession	P54130
GeneID	14180
Source	E.coli-derived mouse FGF-9, Pro3-Ser208, with an N-terminal Met.
Molecular Weight	Approximately 23.4 kDa.
AA Sequence	MPLGEVGSYF GVQDAVPFGN VPVLPVDSPV LLNDHLGQSE AGGLPRGPAV TDLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLGMNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED_{50} 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 > 2.0×10^6 IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 8.5.
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℃. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!