Recombinant Human FGF9 Protein

Cat. No. FGF9-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF-9 protein without tag was expressed in E. coli. Animal-derived component free (ACDF) and carrier protein-free. Mass spectrometry: single species with expected mass. Analytical reversed-phase: single sharp peak. Recovery from stock vial: >95%
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Expression of the mouse homolog of this gene was found to be dependent on Sonic hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis.
Molecular Mass	23 kDa (monomer)
Endotoxin	<0.005 EU/μg protein (below level of detection)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Kidney organoid generation; Chemically defined media
Storage	Resuspend in water at >100 µg/mL, prepare single use aliquots, add carrier protein if desired and store frozen at -20 or -80 centigrade
Storage Buffer	Lyophilized from PBS

GENE INFORMATION

Gene Name	FGF9 fibroblast growth factor 9 [Homo sapiens (human)]
Official Symbol	FGF9
Synonyms	FGF9; fibroblast growth factor 9; GAF; FGF-9; SYNS3; HBFG-9; HBGF-9; fibroblast growth factor 9; fibroblast growth factor 9 (glia-activating factor); heparin-binding growth factor 9
Gene ID	2254
mRNA Refseq	NM_002010
Protein Refseq	NP_002001
MIM	600921
UniProt ID	P31371

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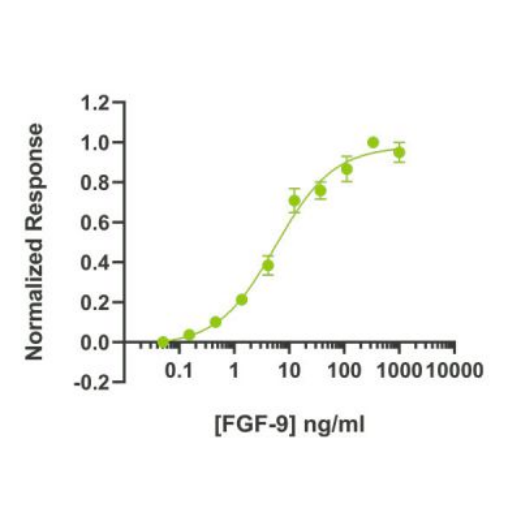
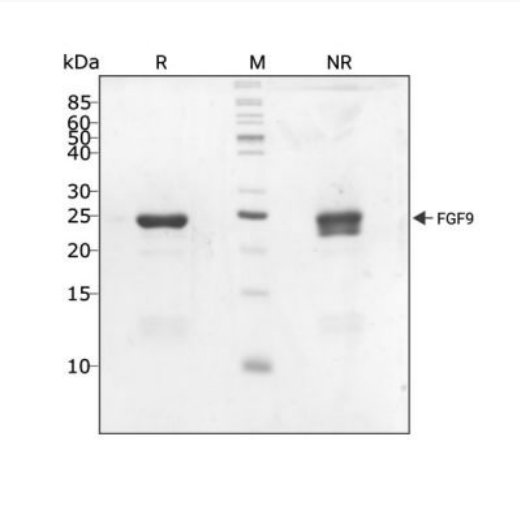
Bioactivity	 FGF9 activity is determined using the serum response element luciferase reporter assayin transfected HEK293T cells. EC50 = 5.7 ng/mL (0.24 nM). Cells are treated in triplicate with a serial dilution of FGF-9 for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity.
Purity	

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FGF-9 migrates as a single band at 23 kDa in non-reducingconditions and upon reductionwas resolved using 15% w/v SDS-PAGE in reducedand non-reducedconditions and stained with Coomassie Brilliant Blue R250.

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