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Product datasheet for TP727583

Fgf9 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Fibroblast Growth Factor 9/FGF-9(C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Met1-Ser208
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, 5%Trehalose, 1mM EDTA, 20% Glycerol, 1mM DTT, pH 8.5 .
Note:	Recombinant Mouse Fibroblast Growth Factor 9 is produced by our E.coli expression system and the target gene encoding Met1ÂSer208 is expressed with a 6His tag at the N-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	14180
UniProt ID:	P54130
Synonyms:	Fibroblast growth factor 9;FGF-9;Glia-activating factor;GAF;heparin-binding growth factor-9;HBGF-9;Fgf9;Fgf-9
Summary:	Fibroblast growth factor-9 (FGF-9) is an approximately 26 kDa secreted glycoprotein of the FGF family. Secreted mouse FGF-9 lacks the N-terminal 1-3 aa and shares >98% sequence identity with rat, human, equine, porcine and bovine FGF-9. FGF-9 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. In the mouse embryo the location and timing of FGF-9 expression affects development of the skeleton, cerebellum, lungs, heart, vasculature, digestive tract, and testes .It may have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors. Deletion of mouse FGF-9 is lethal at birth due to lung hypoplasia, and causes rhizomelia, or shortening of the proximal skeleton. An unusual constitutive dimerization of FGF 9 buries receptor interaction sites which lowers its activity, and increases heparin affinity which inhibits diffusion. A spontaneous mouse mutant, Eks, interferes with dimerization, resulting monomeric, diffusible FGF-9 that causes elbow and knee synostoses (joint fusions) due to FGF-9 misexpression in developing joints.

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
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