Datasheet for ABIN2017840

FGF9 Protein (AA 3-208, Ser34Asn-Mutant)

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Overview

Quantity:	50 µg
Target:	FGF9 (FGF-9)
Protein Characteristics:	AA 3-208, Ser34Asn-Mutant
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 5 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 2x10^5 units/mg. AA 3-208 (Ser34Asn), expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF9 (FGF-9)
Alternative Name:	Fibroblast Growth Factor-9 (FGF-9) (FGF-9 Products)
Background:	Fibroblast Growth Factor-9 (FGF-9) is a pleiotropic cytokine and belongs to the heparin-binding FGF family. Like other members in the family, FGF-9 resembles a beta-trefoil structure. FGF-9 undergoes reversible dimerization, a common characteristic shared by its subfamily members,

Target Details

	FGF-16 and FGF-20. The mutations involved in the homodimerization also affect the affinity for heparin, binding to FGF receptors, and biological activity. In vivo, FGF-9 is expressed in limb buds, the developing skeleton, and in the intestines during late stage embryogenesis. FGF-9 is essential for the development of heart, lung, kidney, cecum, and testes, and the reduction of FGF-9 level leads to premature differentiation. FGF-9 also works along with Bone Morphogenetic Protein-7 (BMP-7) to promote the survival of nephron progenitors.Recombinant mouse Fibroblast Growth Factor (rmFGF-9) produced in E. coli is a single non-glycosylated polypeptide chain containing 207 amino acids. A fully biologically active molecule, rmFGF-9 has a molecular mass of 23.4 kDa analyzed by reducing SDS-PAGE. Synonyms: Growth Factor-9, GAF (Glia-activating factor), HBGF-9
Molecular Weight:	23.4 kDa, observed by reducing SDS-PAGE.
UniProt:	P54130

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Fibroblast Growth Factor (rmFGF-9) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmFGF-9 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months