

Datasheet for ABIN1589631 FGF4 Protein (His tag)



Overview

Quantity:	5 µg
Target:	FGF4
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGF4 protein is labelled with His tag.

Product Details

Purpose:	FGF-4
Sequence:	MGHHHHHHH HHSSGHIEGR HMAPNGTRHA ELGHGWDGLV ARSLARLPVA AQPPQAAVRS GAGDYLLGLK RLRRLYCNVG IGFHLQVLPD GRIGGVHADT RDSLLELSPV QRGVVSIFGV ASRFFVAMSS RGKLFGVPFF TDECKFKEIL LPNNYNAYEA YAYPGMFMAL SKNGRTKKGN RVSPTMKVTH FLPRL
Specificity:	Chromosomal location:7 F5, 7 724.4 cM
Characteristics:	Length (aa):195
Purity:	> 80 % by SDS-PAGE

Target Details

Target:	FGF4
Alternative Name:	FGF-4 (FGF4 Products)

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Target I	Details
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Molecular Weight	21.6 kDa
	Synonyms: Fgf4, KS3, hst, Fgfk, Hst1, kFGF, Fgf-4, hst-1, Hstf-1
	promoter in vivo and has been investigated as therapy for coronary artery disease.
	endothelial cells in vitro and has autocrine transforming potential. It is a potent angiogenesis
	endogenously expressed in human embryonic stem cells. FGF4 is mitogenic for fibroblasts and
	truncated 15 kDa isoform that opposes full length FGF4 and promotes differentiation is
	concentration, and is often included in embryonic stem cell media in vitro. A C-terminally
	promotes stem cell proliferation, but may also aid differentiation depending on context and
	proposed to play a physiologically relevant role in human embryonic stem cell self-renewal. It
	ectodermal ridge, which direct the outgrowth and patterning of vertebrate limbs. FGF4 is
	in development, FGF4 works together with FGF8 to mediate the activities of the apical
	of FGF R2, and is required for maintenance of the trophectoderm and primitive endoderm. Later
	embryonic development. Its expression in the trophoblast inner cell mass promotes expression
	of FGF4 and its receptors, FGF R1c, 2c, 3c and 4, is spatially and temporally regulated during
	FGF4, respectively. Human FGF4 has been shown to exhibit cross species activity. Expression
	mouse FGF 4 shares 87%, 90 %, 87% and 85 % aa identity with human, rat, canine and bovine
	an FGF homology domain that contains a heparin binding region near the C-terminus. Mature
	encodes 202 amino acids (aa) with a 29 aa signal sequence and a 173 aa mature protein with
	FGF), is a 25 kDa secreted, heparin-binding member of the FGF family. The mouse FGF4 cDNA
Background:	FGF4 (fibroblast growth factor4), also known as FGF-K or K-FGF (Kaposi's sarcoma-associated

Molecular Weight:	21.6 kDa
Gene ID:	14175
NCBI Accession:	NM_010202, NP_034332
UniProt:	P11403
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Stem Cell Maintenance

Application Details

Application Notes:	The biological activity was determined by the induction of proliferation in NHDF cells (Normal Human Dermal Fibroblasts).
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

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Handling

Format:	Lyophilized
Reconstitution:	We recommend a quick spin followed by reconstitution in water to a concentration of 0.1- 1.0 mg/mL . This solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week or -20 °C for future use.
Buffer:	0.5X PBS
Handling Advice:	Centrifuge vial prior to opening. Avoid repeated freeze-thaw cycles.
Storage:	RT,4 °C,-20 °C
Storage Comment:	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted FGF-4 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.