

Datasheet for ABIN7505474

FGF2 Protein (AA 10-144) (His tag)



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Overview

Quantity:	100 µg
Target:	FGF2
Protein Characteristics:	AA 10-144
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF2 protein is labelled with His tag.

Product Details

Sequence:	Pro10-Ala144
Characteristics:	A DNA sequence encoding the Rat Fgf2 alpha2 (P13109-1) (Pro10-Ala144) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	FGF2
Alternative Name:	FGF2 (FGF2 Products)
Background:	<p>Abbreviation: FGF2</p> <p>Target Synonym: Basic fibroblast growth factor,Basic fibroblast growth factor bFGF,BFGF,FGF 2,FGF B,FGF-2,Fgf2,FGF2 basic,FGF2,FGFB,Fibroblast growth factor 2 (basic),Fibroblast growth factor 2,Fibroblast growth factor,basic,HBGF 2,HBGF-2,HBGF2,HBGH 2,HBGH2,Heparin binding</p>

Target Details

growth factor 2 precursor,Heparin-binding growth factor 2,Prostatropin

Background: The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.

Molecular Weight: Calculated MW: 15.2 kDa
Observed MW: 17.5 kDa

UniProt: [P13109-1](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [C21-Steroid Hormone Metabolic Process](#), [Inositol Metabolic Process](#), [Glycosaminoglycan Metabolic Process](#), [Protein targeting to Nucleus](#), [S100 Proteins](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4., 5 % trehalose, 5 % mannitol, 0.01 % tween-80.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months