Datasheet for ABIN7320526

FGF2 Protein

2 Images

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Overview

Quantity:	50 µg
Target:	FGF2
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Mouse FGF-2/FGFb Protein (aa 1-154)(Active)
Sequence:	Met1-Ser154
Characteristics:	Recombinant Mouse Fibroblast growth factor 2/Fibroblast Growth Factor Basic is produced by our E.coli expression system and the target gene encoding Met1-Ser154 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 0.3-1.8 ng/ml.

Target Details

Target:	FGF2
Alternative Name:	FGF-2/FGFb (FGF2 Products)

Target Details

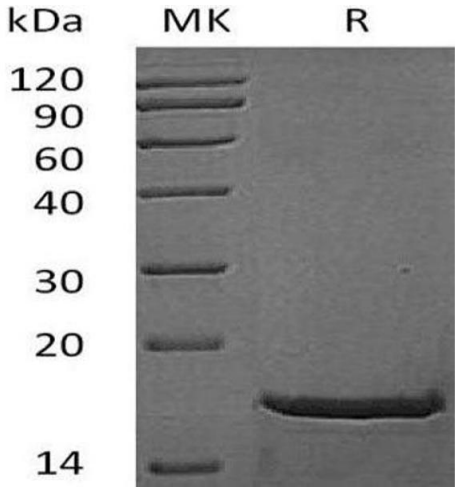
Background:	Background: FGF basic is one of 22 mitogenic proteins of the FGF family, which show 35-60 % amino acid conservation. Unlike other FGFs, FGF acidic and basic lack signal peptides and are secreted by an alternate pathway. The 17 kDa mouse sequence has 98 % aa identity with rat, and 95 % identity with human, bovine, and sheep FGF basic. Binding of FGF to heparin or cell surface HSPG is necessary for binding, dimerization and activation of tyrosine kinase FGF receptors. FGF basic binds other proteins, polysaccharides and lipids with lower affinity. Expression of FGF basic is nearly ubiquitous but disruption of the mouse FGF basic gene gives a relatively mild phenotype, suggesting compensation by other FGF family members. FGF basic modulates such normal processes as angiogenesis, wound healing and tissue repair, embryonic development and differentiation, neuronal function and neural degeneration. Transgenic overexpression of FGF basic results in excessive proliferation and angiogenesis is reminiscent of a variety of pathological conditions. Synonym: Fibroblast Growth Factor 2, FGF-2, Basic Fibroblast Growth Factor, bFGF, Heparin-Binding Growth Factor 2, HBGF-2, Fgf2, Fgf-2
Molecular Weight:	17.2 kDa
UniProt:	P15655
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
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 400 mM NaCl, pH 7.0.
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.



Western Blotting

Image 1.

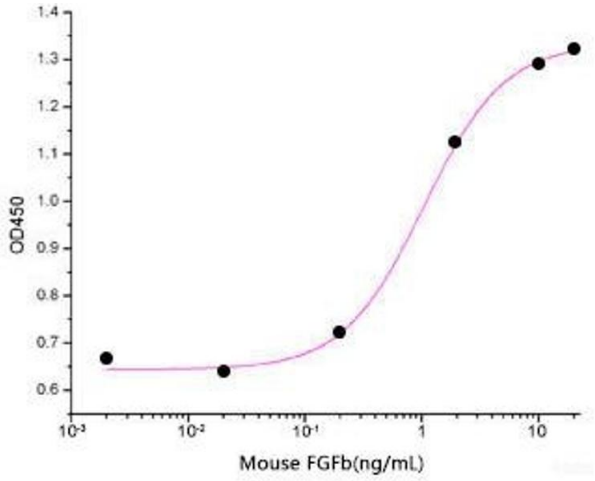


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Image 2.

