

Datasheet for ABIN6699842

FGF2 Protein**2** Images[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	FGF2
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Fibroblast Growth Factor basic Recombinant Protein
Purification:	Fibroblast Growth Factor basic purity was determined to be greater than 95% as determined by analysis of reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of 3T3 cells and is typically less than 2.5 ng/mL.

Target Details

Target:	FGF2
Alternative Name:	Fgf2 (FGF2 Products)
Background:	Synonyms: Heparin-binding growth factor 2 (HBGF-2), Prostatropin, Basic fibroblast growth factor (bFGF)

Target Details

Background: Fibroblast Growth Factors, FGFs, are a 22 member family of proteins known to be involved in angiogenesis, wound healing and embryonic development. As a family, they bind to heparin and signal through four receptor tyrosine kinases called, FGFR1, 2, 3 and 4. Although the mechanism remains unclear, FGF-basic, or FGF-1, is a critical component in keeping human embryonic stem cells undifferentiated in cell culture systems. Recombinant mouse FGF basic is a non-glycosylated protein, containing 145 amino acids, with a molecular weight of 16.3 kDa.

UniProt: [P61148](#)

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

Application Notes: Other: User Optimized
Application_Note: Fibroblast Growth Factor basic Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Fibroblast Growth Factor basic in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 50µL

Buffer: Buffer Formulation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.

Preservative: Without preservative

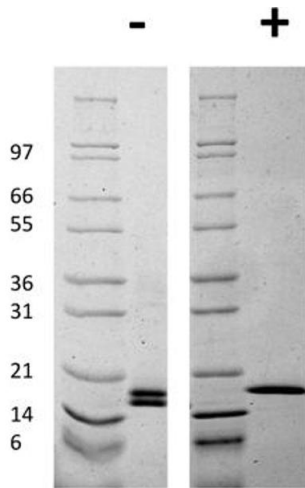
Storage: 4 °C,-20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

at room temperature.

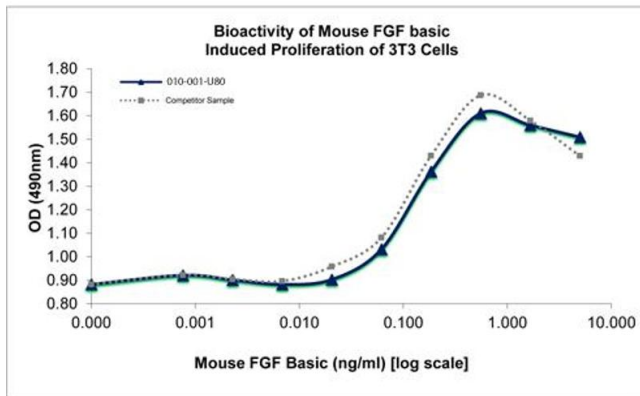
Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Mouse Fibroblast Growth Factor basic Recombinant Protein SDS-PAGE of Mouse Fibroblast Growth Factor basic Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Mouse FGF-basic in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Mouse FGF-basic in reducing conditions (+). Mouse FGF-basic has a predicted MW of 17.2 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Fibroblast Growth Factor basic Recombinant Protein Mouse Fibroblast Growth Factor basic Recombinant Protein. Serial dilutions of Mouse FGF Basic, starting at 5 ng/mL, were added to NIH 3T3 cells. Cell proliferation was measured after 41 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse FGF Basic is 0.1-0.16 ng/mL. This value is comparable with the typical expected range of < 1 ng/mL.