

Datasheet for ABIN6700912

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

## Overview

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

## Product Details

Purpose:	Human Fibroblast Growth Factor 147 basic Recombinant Protein
Purification:	Fibroblast Growth Factor 147 basic purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically $\leq 1$ EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically less than 1 ng/mL.

## Target Details

Target:	FGF2
Alternative Name:	FGF2 ( <a href="#">FGF2 Products</a> )
Background:	Synonyms: Heparin-binding growth factor 2 (HBGF-2), Prostatropin, Basic fibroblast growth

## Target Details

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factor (bFGF)

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 147 (variant of FGF basic 154), also called FGF-2, is a critical component in keeping embryonic stem cells undifferentiated in cell culture systems. Recombinant human FGF-b 147 (FGF-2) is a non-glycosylated protein, containing 147 amino acids, with a molecular weight of 16.5 kDa.

UniProt: [P09038](#)

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

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Application Notes: Other: User Optimized  
Application\_Note: Fibroblast Growth Factor 147 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 147 basic in immunological assays..

Comment: Suggested\_Applications: Cellular Assay  
Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)  
Reconstitution\_Volume: 50µL

Buffer: Lyophilized in 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5.

Preservative: Without preservative

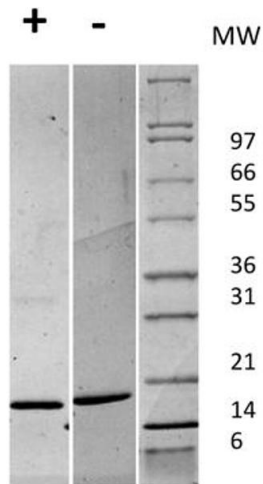
Storage: 4 °C, -20 °C

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.

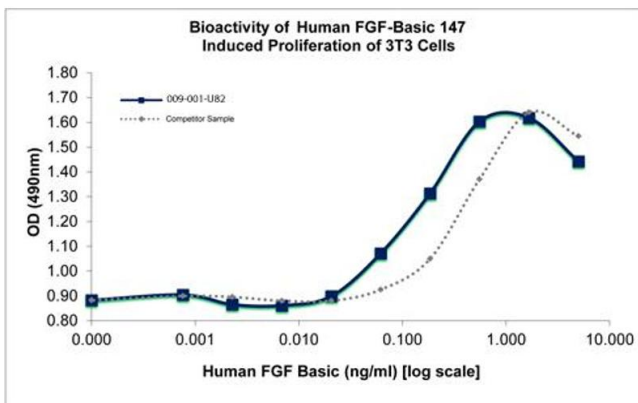
Expiry Date: 6 months

Images



SDS-PAGE

**Image 1.** SDS-PAGE of Human Fibroblast Growth Factor 147 basic Recombinant Protein SDS-PAGE of Human Fibroblast Growth Factor 147 basic Recombinant Protein. Lane 1: 1 µg Human FGF147-basic in reducing conditions (+). Lane 2: 1 µg Human FGF147-basic in non-reducing conditions . Lane 3: Molecular weight marker. Human FGF147-basic has a predicted MW of 16.5 kDa.



SDS-PAGE

**Image 2.** SDS-PAGE of Human Fibroblast Growth Factor 147 basic Recombinant Protein Bioactivity of Human Fibroblast Growth Factor 147 basic Recombinant Protein. 3T3 cells were cultured with 0 to 10 ng/mL Human FGF basic. Cell proliferation was measured after 41 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Human FGF basic is 0.1-1.4 ng/mL.