



[Go to Product page](#)

Datasheet for ABIN2017855

FGF2 Protein (AA 135-288, Isoform 1)

2 Images

Overview

Quantity:	50 µg
Target:	FGF2
Protein Characteristics:	Isoform 1, AA 135-288
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.25 ng/mL, measured by the cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 4 x 10 ⁶ units/mg.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF2
Alternative Name:	Fibroblast Growth Factor-Basic (FGF-Basic) (FGF2 Products)
Background:	Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, bFGF has the beta trefoil structure. In vivo, bFGF is produced by a variety of cells, including cardiomyocytes, fibroblasts, and vascular cells. bFGF regulates a variety of processes

Target Details

including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. bFGF can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of bFGF can produce beneficial cardioprotection during acute heart injury. Recombinant human Fibroblast Growth Factor-basic (rhFGF-basic) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 154 amino acids. A fully biologically active molecule, rhFGF-basic has a molecular mass of 17.1 kDa analyzed by reducing SDS-PAGE.

Synonyms: Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin

Molecular Weight: 17.1 kDa, observed by reducing SDS-PAGE.

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

Restrictions: For Research Use only

Handling

Format: Lyophilized

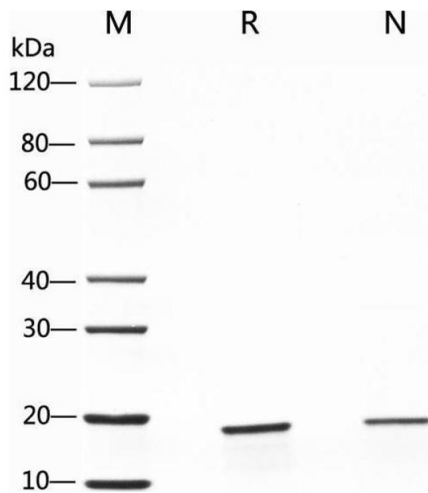
Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

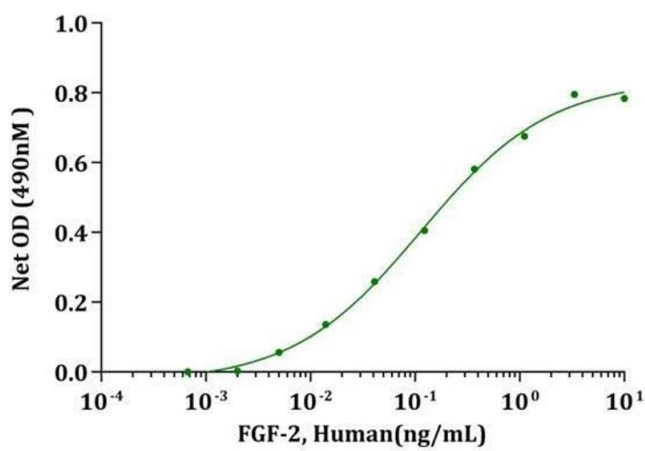
Storage Comment: Lyophilized recombinant human Fibroblast Growth Factor-basic (rhFGF-basic) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-basic remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months



SDS-PAGE

Image 1. 2 µg of FGF-basic, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



Activity Assay

Image 2. FGF-basic (154aa), Human stimulates cell proliferation of Balb/3T3 cells. The ED50 for this effect is 0.1ng/mL.