Datasheet for ABIN2017861

FGF2 Protein (AA 10-154)

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Overview

Quantity:	50 µg
Target:	FGF2
Protein Characteristics:	AA 10-154
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.25 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 4 x 10^6 units/mg. AA 10-154, expressed with an N-terminal Gly.
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, FGF-basic has the beta trefoil structure. In vivo, FGF-basic is produced by a variety of

Target Details

	cells, including cardiomycotes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.Recombinant rat Fibroblast Growth Factor-basic (rrFGF-basic) produced in E. coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rrFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE. Synonyms: Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin
Molecular Weight:	16.4 kDa, observed by reducing SDS-PAGE.
UniProt:	P13109
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 rat Fibroblast Growth Factor-basic (rrFGF-basic) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrFGF-basic remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months