

Recombinant Rat Fgf2 protein, His/S-tagged

Cat. No. Fgf2-200R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Fgf2 fused with His/S tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.
Form	Lyophilized from sterile PBS, pH 7.4
Purity	> 95 % as determined by SDS-PAGE
Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

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Gene Name	Fgf2 fibroblast growth factor 2 [Rattus norvegicus]
Official Symbol	Fgf2
Synonyms	FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; bFGF; Fgf-2;
Gene ID	54250
mRNA Refseq	NM_019305
Protein Refseq	NP_062178
UniProt ID	P13109
Chromosome Location	2q25
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1b ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem;
Function	chemoattractant activity; cytokine activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; fibroblast growth factor receptor binding; growth factor activity; growth factor activity; heparin binding; ligand-dependent nuclear receptor transcription coactivator activity; nerve growth factor receptor binding; voltage-gated calcium channel activity;

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