Recombinant Rat Fgf1 protein

Cat. No. Fgf1-257R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Fgf1 was expressed in E. coli.
Species	Rat
Source	E.coli
Description	aFGF, also known as FGF1 and HBGF-1, is a member of the fibroblast growth factor family. The biological activity of aFGF protein is exerted through binding to four high affinity cell surface receptors (FGFR1–4), which results in receptor dimerization and transphosphorylation in the tyrosine kinase domain. aFGF protein shows a wide range of endocrine-like activities. As a multiple function growth factor, this protein is involved in embryo development and tissue repair. Additionally, this protein is considered to function in several important physiological and pathological processes, such as embryonic development, morphogenesis, angiogenesis, wound healing and atheromatosis, carcinogenesis, development, and invasion of cancer.
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

Gene Name	Fgf1 fibroblast growth factor 1 [Rattus norvegicus]

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Official Symbol	Fgf1
Synonyms	FGF1; fibroblast growth factor 1; aFGF; acidic fibroblast growth factor; heparin-binding growth factor 1; Fibroblast growth factor 1 (heparin binding); FGF-1; HBGF1; HBGF-1;
Gene ID	25317
mRNA Refseq	NM_012846
Protein Refseq	NP_036978
UniProt ID	P61149
Chromosome Location	18p11
Pathway	Downstream signaling of activated FGFR, 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; FGFR2b ligand binding and activation, organism-specific biosystem;
Function	S100 alpha binding; S100 alpha binding; fibroblast growth factor receptor binding; fibroblast growth factor receptor binding; growth factor activity; growth factor activity; heparin binding; heparin binding;

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