

Recombinant Rat Pfn1 protein, His-tagged

Cat. No. Pfn1-56R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Pfn1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Rat
Source	E.coli
Description	Pfn1 also known as Profilin-1 is a ubiquitous actin monomer-binding protein belonging to the profilin family. This protein significantly enhances skin wound healing in-vitro and in-vivo that may be mediated by purinergic receptors. It is also active in endothelial cell migration and vessel sprouting. It is thought to regulate actin polymerization in response to extracellular signals.
Form	Liquid. In Phosphate Buffered Saline(pH 7.4) containing 10% glycerol 1mM DTT
Molecular Mass	17.5 kDa (164aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMAGWNA YIDSLMADGT CQDAAIVGYK DSPSVWAAVP GKTFVSITPA EVGVLVGKDR SSFFVNGLTLL GGQKCSVIRD SLLQDGEFTM DLRTKSTGGA PTFNVTVTMT AKTLVLLMGK EGVHGGLINK KCYEMASHLR RSQY
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name Pfn1 profilin 1 [*Rattus norvegicus*]

Official Symbol Pfn1

Synonyms PFN1; profilin 1; profilin-1; profilin I;

Gene ID 64303

mRNA Refseq NM_022511

Protein Refseq NP_071956

MIM

UniProt ID

Pathway Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, conserved biosystem; Salmonella infection, organism-specific biosystem;

Function Rho GTPase binding; Rho GTPase binding; actin binding; actin binding; phosphatidylinositol-4,5-bisphosphate binding; proline-rich region binding; proline-rich region binding; protein binding; receptor binding;

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