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## Product Data Sheet

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Product Name: PFN1 Rat  
 Cat. No.: GP24171  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Profilin-1; Profilin I.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMAGWNA YIDSLMADGT CQDAAIVGYK DSPSVWAAVP GKTFVSITPAEVGVLVGKDR SSFFVNGLTL GGQKCSVIRD SLLQDGEFTM DLRTKSTGGA PTFNVTVTMT AKTLVLLMGKEGVHGGGLINK KCYEMASHLR RSQY.		
Formulation	PFN1 protein solution (1mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol 1mM DTT.		

### Introduction

Profilin-1 also known as Pfn1 is a ubiquitous actin monomer-binding protein which is a member of the profilin family. Pfn1 significantly enhances skin wound healing in-vitro as well as in-vivo which is mediated by purinergic receptors. Furthermore, Pfn1 is also active in endothelial cell migration and vessel sprouting. Pfn1 is considered to regulate actin polymerization in response to extracellular signals.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PFN1 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 164 amino acids (1-140 a.a) and having a molecular mass of 17.5kDa. PFN1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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