

Recombinant Human PDF protein, His-tagged

Cat. No. PDF-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDF protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	Protein synthesis proceeds after formylation of methionine by methionyl-tRNA formyl transferase (FMT) and transfer of the charged initiator f-met tRNA to the ribosome. In eubacteria and eukaryotic organelles the product of this gene, peptide deformylase (PDF), removes the formyl group from the initiating methionine of nascent peptides. In eubacteria, deformylation of nascent peptides is required for subsequent cleavage of initiating methionines by methionine aminopeptidase. The discovery that a natural inhibitor of PDF, actinonin, acts as an antimicrobial agent in some bacteria has spurred intensive research into the design of bacterial-specific PDF inhibitors. In human cells, only mitochondrial proteins have N-formylation of initiating methionines. Protein inhibitors of PDF or siRNAs of PDF block the growth of cancer cell lines but have no effect on normal cell growth. In humans, PDF function may therefore be restricted to rapidly growing cells.
Form	Supplied as a 0.2 µm filtered solution in 50mM Tris-HCl pH8.0, 300mM NaCl, 50% glycerol.
Molecular Mass	~24.3 kDa
AA Sequence	MEGPALRRSYWRHLRRLVLGPPEPPFSHVCQVGDPVLRGVAAPVERAQLGGPELQ

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RLTQRLVQVMRRRCVGLSAPQLGVPRQVLALELPEALCRECPPRQRALRQMEPF
PLRVFVNPSLRVLD SRLVTFPEGCE SVAGFLACVPRFQAVQISGLDPNGEQVWQA
SGWAARIIQHEMDHLQGCLFIDKMSRTFTNVYWMKVNDLEHHHHHH

Purity >90%

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.3mg/mL

GENE INFORMATION

Gene Name PDF peptide deformylase, mitochondrial [Homo sapiens (human)]

Official Symbol PDF

Synonyms Growth/differentiation factor 15; GDF-15; Placental TGF-beta; NAG-1; Macrophage inhibitory cytokine 1; MIC1; NSAID-activated gene 1 protein; PTGFB; NRG-1; MIC-1; PLAB; NSAID-regulated gene 1 protein; PDF; Prostate differentiation factor; Placental bone morphogenetic protein

Gene ID 64146

mRNA Refseq NM_022341

Protein Refseq NP_071736

MIM 618720

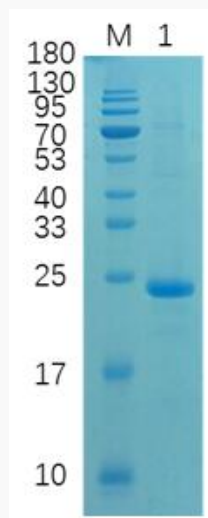
UniProt ID Q9HBH1

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SDS-PAGE



12% reducing SDS-PAGE analysis of purified PDF (approximately 2 mg protein loaded).

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