Recombinant Human PDF, GST-tagged

Cat. No. PDF-7830H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDF(1 a.a. - 108 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	39.1 kDa
AA Sequence	MTRRWGPSSQLQHQSLPPRSHAWSPRAQPARREGERRRRPNRPAWGPSRRPLP PERGLDPNGEQVVWQASGWAAR IIQHEMDHLQGCLFIDKMDSRTFTNVYWMKVN

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Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	PDF peptide deformylase (mitochondrial) [Homo sapiens (human)]
Official Symbol	PDF
Synonyms	PDF; peptide deformylase (mitochondrial); peptide deformylase, mitochondrial; polypeptide deformylase; peptide deformylase-like protein; NP_071736.1; EC 3.5.1.88
Gene ID	64146
mRNA Refseq	NM_022341
Protein Refseq	NP_071736
UniProt ID	Q9HBH1
Chromosome Location	16q22.1
Function	iron ion binding; peptide deformylase activity

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