

Active Recombinant Human PSIP1, 322-530aa

Cat. No. PSIP1-1079H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

Lens Epithelium-derived Growth Factor (LEDGF, also called as p75) has been shown to enhance survival of lens epithelial cells (LECs) against stress. LEDGF is a transcriptional activator. It protects the cells by binding to cis-stress response ((A/T)GGGG (T/A)), and heat shock (HSE; nGAAn) elements in the stress genes and activating their transcription. Originally, it was isolated as a co- activator required for transcriptional activation in human cell-free systems containing RNA Polymerase II and general initiation factors. LEDGF is expressed at all stages of development in a variety of organs and tissues. A second protein product, p52, can be produced from the same gene due to alternative splicing of pre-mRNA. In vitro, p52 was found to be more general and stronger transcriptional co-activator than LEDGF/p75. HIV-1 integrase (IN) forms a specific nuclear complex with p75 but not with p52, suggesting a role for p75's C-terminal region in retroviral integration. Recombinant p75 CTR is isolated from an E.coli strain that carries the C-terminal coding sequence of the human LEDGF/p75(amino acid 322-530) under the control of a T7 promoter. p75 has been applied in in vitro transcription assays, splicing assays, DNA and protein-protein interaction assays. The purified recombinant protein is greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.

Form Liquid. Supplied in 20mM Tris-HCl pH7.9, 20% glycerol, 100mM KCl, 0.2mM EDTA

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	and 1mM DTT.
Activity	20ng are sufficient for an in vitro transcription assay and 100ng are sufficient for a protein-protein interaction assay.
Purity	>95% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	PSIP1 PC4 and SFRS1 interacting protein 1 [Homo sapiens]
Synonyms	PSIP1; PC4 and SFRS1 interacting protein 1; p52; p75; PAIP; DFS70; LEDGF; PSIP2; MGC74712; transcriptional coactivator p52/p75; PC4 and SFRS1 interacting protein 2; OTTHUMP00000022753; OTTHUMP00000022754; OTTHUMP00000022756; CLL-associated antigen KW-7; Transcriptional coactivator p75/p52; Dense fine speckles 70 kDa protein; Lens epithelium-derived growth factor
Gene ID	11168
mRNA Refseq	NM_001128217
Protein Refseq	NP_001121689
MIM	603620
UniProt ID	O75475

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Chromosome Location	9p22.2
Pathway	HIV Infection
Function	DNA binding

PDB rendering based
on 1z9e

