

Recombinant Human CPSF4, His-tagged

Cat. No. CPSF4-7579H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CPSF4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-244aa
Antigen Description	Inhibition of the nuclear export of poly(A)-containing mRNAs caused by the influenza A virus NS1 protein requires its effector domain. The NS1 effector domain functionally interacts with the cellular 30 kDa subunit of CPSF4 an essential component of the 3' end processing machinery of cellular pre-mRNAs. In influenza virus-infected cells, the NS1 protein is physically associated with cleavage and polyadenylation specific factor 4, 30kD subunit. Binding of the NS1 protein to the 30 kDa protein in vitro prevents CPSF binding to the RNA substrate and inhibits 3' end cleavage and polyadenylation of host pre-mRNAs.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	29.9 kDa (267aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQEIIAS VDHKFDLEI AVEQQLGAQP LPFPGMDKSG AAVCEFFLKA ACGKGGMCPF RHISGEKTVV CKHWLRGLCK KGDQCEFLHE YDMTKMPECY FYSKFGECSN KECPLHIDP ESKIKDCPWY

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DRGFCKHGPL CRHRHTRRVI CVNYLVGFCP EGPSCCKFMHP RFELPMGTTE
 QPPLPQQTQP PAKQRTTPQVI GVMQSQNSSA GNRGPRPLEQ VTCYKCGEKG
 HYANRCKTKGH LAFLSGQ

Purity >85% as determined by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name CPSF4 cleavage and polyadenylation specific factor 4, 30kDa [Homo sapiens]

Official Symbol CPSF4

Synonyms CPSF4; cleavage and polyadenylation specific factor 4, 30kDa; cleavage and polyadenylation specific factor 4, 30kD subunit; cleavage and polyadenylation specificity factor subunit 4; CPSF30; NAR; neb-1; no arches homolog; CPSF 30 kDa subunit; no arches-like zinc finger protein; NS1 effector domain-binding protein 1; cleavage-polyadenylation specificity factor, 30kD; cleavage and polyadenylation specificity factor 30 kDa subunit; NEB1;

Gene ID 10898

mRNA Refseq NM_001081559

Protein Refseq NP_001075028

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MIM	603052
UniProt ID	O95639
Chromosome Location	7q22
Pathway	Disease, organism-specific biosystem; Host Interactions with Influenza Factors, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Influenza Infection, organism-specific biosystem; Inhibition of Host mRNA Processing and RNA Silencing, organism-specific biosystem; NS1 Mediated Effects on Host Pathways, organism-specific biosystem;
Function	RNA binding; metal ion binding; zinc ion binding;

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