

AR50847PU-S

Human CPSF4 (1-244, His-tag) - Purified

Alternate names:

CPSF30, Cleavage and polyadenylation specificity factor 30 kDa subunit, Cleavage and polyadenylation specificity factor subunit 4, NAR, NEB1, NS1 effector domain-binding protein 1, No arches homolog

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O95639](#)

NCBI:

[NP_001075028](#)

GeneID:

[10898](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

Description:

Recombinant human CPSF4 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGSMQEIIAS VDHIKFDLEI AVEQQLGAQP LPFPGMDKSG
AAVCEFFLKA ACGKGGMCPF RHISGEKTVV CKHWLRGLCK KGDQCEFLHE YDMTKMPECY
FYSKFGECNS KECPLHIDP ESKI KDCPWY DRGFCKHGPL CRHRHTRRVI CVNYLVGFCP
EGPSCFMHP RFELPMGTTE QPPLPQQTP PAKQRTQPVI GVMQSQNSSA GNRGPRPLEQ
VTCYKCGEKG HYANRCKTGH LAFLSGQ

Molecular weight: 29.9 kDa (267aa)

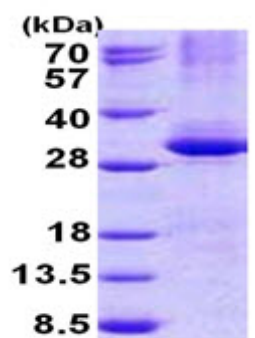
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Jenny,A., et al. (1994) Mol. Cell. Biol. 14 (12), 8183-8190 Barabino,S.M., et al. (1997) Nephrol Genes Dev. 11 (13), 1703-1716

Pictures:



15% SDS-PAGE (3ug)