Recombinant human CPSF4 protein

Catalog Number: ATGP2023

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-244aa

UniProt No.
O95639

NCBI Accession No.
NP_001075028

Alternative Names
cleavage and polyadenylation specific factor 430kDa, cleavage and polyadenylation specific factor 4,30kDa, CPSF30, NAR, NEB1

PRODUCT SPECIFICATION

Molecular Weight
29.9 kDa (267aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M uREA, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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and inhibits 3' end cleavage and polyadenylation of host pre-mRNAs. Recombinant human CPSF4 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

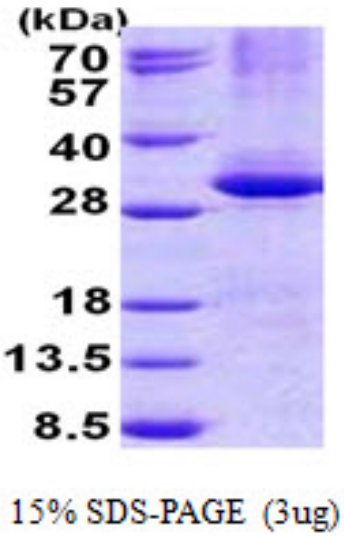
MGSSHHHHHH SSGLVPRGSH MGSMQEIIAS VDHIKFDLEI AVEQQLGAQP LPFPGMDKSG AAVCEFFLKA ACGKGGMCPF RHISGEKTVV CKHWLRGLCK KGDQCEFLHE YDMTKMPECY FYSKFGECSN KECPFLHIDP ESKIKDCPWY DRGFCKHGPL CRHRHTRRVI CVNYLVGFCP EGPSCKFMHP RFELPMGTTE QPPLPQQTQP PAKQRTPQVI GVMQSQNSSA GNRGPRPLEQ VTCYKCGEKG HYANRCTKGH LAFLSGQ

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.