

Recombinant Human CPSF4 Protein, GST/His-tagged

Cat. No. CPSF4-3313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CPSF4 protein, fused to GST-tagged at N-terminus and His-tagged at C-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
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 cleavage and polyadenylation specific factor 4, 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. Thus the NS1 protein selectively inhibits the nuclear export of cellular, and not viral, mRNAs. Multiple alternatively spliced transcript variants that encode different isoforms have been described for this gene.
Form	25 mM Tris, pH 8.0, 150 mM NaCl, 10% glycerol, 1% Sarkosyl.
Molecular Mass	53.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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

Official Symbol CPSF4

Synonyms CPSF30; NAR; NEB-1; NEB1

Gene ID 10898

mRNA Refseq NM_001081559

Protein Refseq NP_001075028

MIM 603052

UniProt ID O95639

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