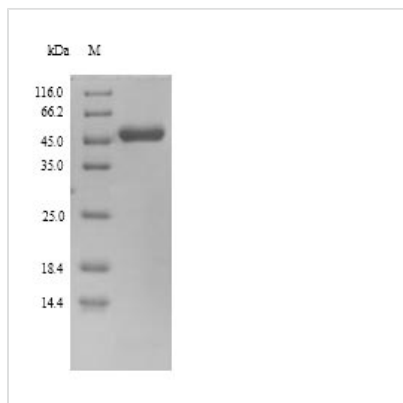




Recombinant Human herpesvirus 6A DNA polymerase processivity factor (U27)

Product Code	CSB-YP346759HJZ
Relevance	Accessory subunit of the DNA polymerase that acts to increase the processivity of polymerization.
Abbreviation	Recombinant Human herpesvirus 6A DNA polymerase processivity factor protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P52439
Alias	Phosphoprotein P41 ;PP41;Polymerase accessory protein ;PAP
Product Type	Recombinant Protein
Immunogen Species	Human herpesvirus 6A (strain Uganda-1102) (HHV-6 variant A) (Human B lymphotropic virus)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MCWSFHLFFKAHKARVGARTSFLTEMERGSRDHHRDHRDHREHRETREPPT LAFHMKSWKTINKSLKAFALLKENTTVTFTPQPSIIQSAKNHLVQKLTIQAECL FLSDTDRFLTKTINNHIPLFESFMNIISNPEVTKMYIQHDSLDYTRVLVTASDTCT QASVPCVHGGQEVVRDTGRSPLRIDLDHSTVSDVLKWLSPTVTKTKRSGKSDAL MAHIIVQVNPPTIKFVTEMNELEFSNSNKVIFYDVKNMRFNLSAKNLQQALSMC AVIKTSCSLRTVAAKDCKLILTSKSTLLTVEAFLTQEQLKEESRFERMGKQDDG KGDRSHKNDDGSALASKQEMQYKITNYMVPKNGTAGSSLFNEKEDSESDDS MHFDYSSNPKNPKRQRCVV
Research Area	Others
Source	Yeast
Target Names	U27
Protein Names	Phosphoprotein P41 ;PP41;Polymerase accessory protein ;PAP
Expression Region	1-393aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	46.8 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Like all recombinant proteins, this Recombinant HHV-6 variant A U27 protein was encoded by recombinant DNA. The recombinant DNA was introduced to a plasmid in which the gene of U27 was cloned downstream of a promoter region. When the plasmid was introduced to the cells of Yeast, the Yeast's own protein synthesis pathways would then result in the expression of the U27 protein. And the next step was protein purification. The purity of this recombinant protein is 90%+ determined by SDS-PAGE.

Human herpesvirus 6A is a member of the genus Roseolovirus and the subfamily Betaherpesvirinae. HHV-6A encodes a 41-kDa nuclear phosphoprotein, U27, which acts as a processivity factor in the replication of the viral DNA. HHV-6A U27 has 43% amino acid sequence homology with HCMV UL44, which is important for DNA replication. n. A previous study on HHV-6A U27 revealed that it greatly increases the in vitro DNA synthesis activity of HHV-6A DNA polymerase. U27-deficient HHV-6A mutant (HHV-6ABACU27mut) with a frameshift insertion at the U27 gene using an HHV-6A bacterial artificial chromosome (BAC) system. U27 is essential for the reconstitution of the viral life cycle of HHV-6A.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.