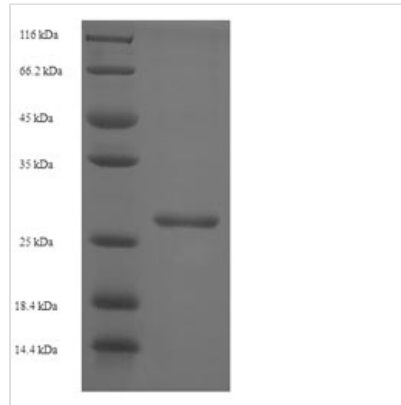


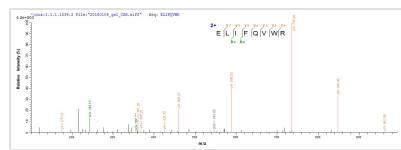


# Recombinant Simian immunodeficiency virus Protein Vpx (vpx)

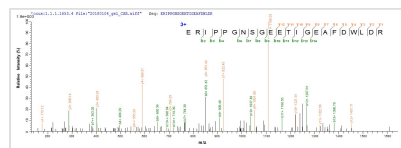
|                          |  |
|--------------------------|--|
| <b>Product Code</b>      | CSB-EP323941SHD  |
| <b>Relevance</b>         | Plays a role in nuclear translocation of the viral pre-integration complex (PIC), thus is required for the virus to infect non-dividing cells. Targets specific host proteins for degradation by the 26S proteasome. Acts by associating with the cellular CUL4A-DDB1 E3 ligase complex through direct interaction with host VPRPB/DCAF-1. This change in the E3 ligase substrate specificity results in the degradation of host SAMHD1. In turn, SAMHD1 depletion allows viral replication in host myeloid cells by preventing SAMHD1-mediated hydrolysis of intracellular dNTPs necessary for reverse transcription. |
| <b>Abbreviation</b>      | Recombinant Simian immunodeficiency virus vpx protein  |
| <b>Storage</b>           | 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.  |
| <b>Uniprot No.</b>       | P19508   |
| <b>Alias</b>             | Viral protein XX ORF protein   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Simian immunodeficiency virus (isolate PBj14/BCL-3) (SIV-sm) (Simian immunodeficiency virus sooty mangabey monkey)   |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.  |
| <b>Sequence</b>          | MSDPRERIPPGNSGEETIGEAFDWDLRTVEEINRAAVNHLPRELIFQVWRRSW<br>EYWHDEMGMSSVSYTKYRYLCLIQKAMFMHCKKGCRCCLGGEHGAGGWRPGP<br>PPPPPPGLA   |
| <b>Research Area</b>     | Others   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | vpx  |
| <b>Protein Names</b>     | Recommended name: Protein Vpx Alternative name(s): Viral protein X X ORF protein   |
| <b>Expression Region</b> | 1-112aa  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | N-terminal 6xHis-SUMO-tagged   |
| <b>Mol. Weight</b>       | 28.9kDa  |
| <b>Protein Length</b>    | Full Length  |
| <b>Image</b>             |  |



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP323941SHD could indicate that this peptide derived from E.coli-expressed Simian immunodeficiency virus (isolate PBj14/BCL-3) (SIV-sm) (Simian immunodeficiency virus sooty mangabey monkey) vpx.



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**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.