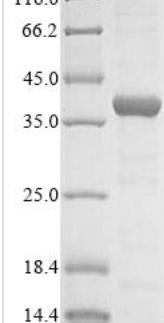
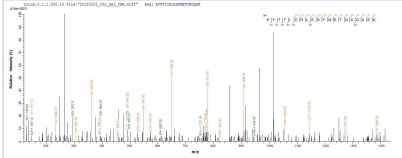
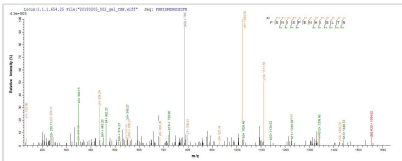




Recombinant Bovine Interferon-inducible double stranded RNA-dependent protein kinase activator A (PRKRA)

Product Code	CSB-EP644142BO
Relevance	Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2-alpha and inhibition of translation and induction of apoptosis. Required for siRNA production by DICER1 and for subsequent siRNA-mediated post-transcriptional gene silencing. Does not seem to be required for processing of pre-miRNA to miRNA by DICER1. Promotes UBC9-p53/TP53 association and sumoylation and phosphorylation of p53/TP53 at 'Lys-386' at 'Ser-392' respectively and enhances its activity in a EIF2AK2/PKR-dependent manner
Abbreviation	Recombinant Bovine PRKRA 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.	Q2HJ92
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	≥ 85% as determined by SDS-PAGE.
Sequence	MSQSRHRAAAPPMEREDSGTFSLGKMITAKPGKTPIQVLHEYGMKTKNIPVYE CERSDVQIHVPTFTFRVTVGDITCTGEGTSKKLAKHRAAEAAINILKANASICFA VPDPLMPDPSKQPKNQLNPIGSLQELAIHHGWRLPEYTLSQEGGPAHKREYTT ICRLESFMETGKGASKKQAKRNAAEKFLAKFSNISPENHISLTNMVGHSLGCT WHSLRNSPGEKINLLKRSLLSIPNTDYIQLLSEIAKEQGFNITYLDIEELSANGQY QCLAELSTSPITVCHGSGISCSSAQSDAAHNALQYLKIIAERK
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	PRKRA
Protein Names	Protein activator of the interferon-induced protein kinase Protein kinase, interferon-inducible double-stranded RNA-dependent activator
Expression Region	1-313aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	39.4 kDa

Protein Length	Full Length
Image	 (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-EP644142BO could indicate that this peptide derived from E.coli-expressed Bos taurus (Bovine) PRKRA.
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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.