

# Recombinant Bovine PRKRA Protein (1-313 aa), His-Myc-tagged

**Cat. No.** PRKRA-2502B    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Bovine PRKRA Protein (1-313 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.
<b>Species</b>	Bovine
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-313 aa
<b>Description</b>	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.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	39.4 kDa
<b>AA Sequence</b>	MSQSRHRAAAPPMEREDSGTFLGKMITAKPGKTPIQVLHEYGMKTKNIPVYECER

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDVQIHVPTFTFRVTVGDITCTGEGTSKKLAKHRAAEAAINILKANASICFAVPDPLMP  
 DPSKQPKNQLNPIGSLQELAIHHGWRLPEYTLSQEGGPAHKREYTTICRLESFMETG  
 KGASKKQAKRNAAEKFLAKFSNISPENHISLTNMVGHSLGCTWHSRLRNSPGEKINLL  
 KRSLLSIPNTDYIQLLSEIAKEQGFNITYLDIEELSANGQYQCLAELSTSPITVCHGSGI  
 SCSSAQSDAAHNALQYLKIIAERK

**Purity** > 85% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** PRKRA protein activator of interferon induced protein kinase EIF2AK2 [ Bos taurus (cattle) ]

**Official Symbol** PRKRA

**Synonyms** PRKRA; PACT;

**Gene ID** 282875

**mRNA Refseq** NM\_001045870

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**Protein Refseq** NP\_001039335

**UniProt ID** Q2HJ92

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