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

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

SPECIFICATION

Product Overview	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.
Species	Bovine
Source	E.coli
ProteinLength	1-313 aa
Description	Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EFI2-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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	39.4 kDa
AA Sequence	MSQSRHRAAAPPMEREDSGTFSLGKMITAKPGKTPIQVLHEYGMKTKNIPVYECER

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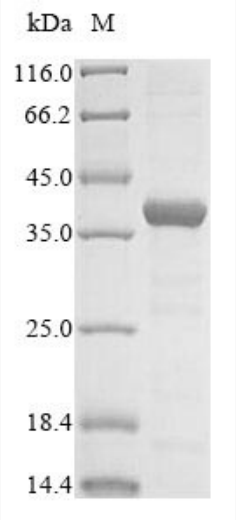
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Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage 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



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

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