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## Product Data Sheet

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Product Name: PRKRA Human  
 Cat. No.: GP22612  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interferon-inducible double-stranded RNA-dependent protein kinase activator A; Protein Kinase IFN Double Stranded RNA Activator; PKR-associated protein X; PKR-associating protein X; Protein activator of the interferon-induced protein kinase; Protein kinase; interferon-inducible double-stranded RNA-dependent activator; PRKRA; PACT; RAX; HSD-14; HSD14; Protein kinase; interferon-inducible double stranded RNA dependent activator; DYT16.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSQSRHR AEAPPLERED SGTFSLGKMI TAKPGKTPIQ VLHEYGMKTK NIPVYECERS DVQIHVPTFT FRVTVDITC TEGGTSKKLA KHRAAEAAIN ILKANASICF AVPDPLMPDP SKQPKNQLNP IGSLQELAIH HGWRLPEYTL SQEGGPAHKR EYTTICRLES FMETGKGASK KQAKRNAAEK FLAKFSNISP ENHISLTNVV GHSLGCTWHS LRNSPGEKIN LLKRSLLSIP NTDYIQLLSE IAKEQGFNIT YLDIDELSAN GQYQCLAELS TSPITVCHGS GISCGNAQSD AAHNALQYLK IIAERK.		
Formulation	PRKRA solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 50% glycerol, 2mM DTT and 1mM EDTA.		

### Introduction

Protein Kinase IFN Double Stranded RNA Activator, also known as PRKRA, mediates the effects of interferon when a viral infection takes place. PRKRA activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA) and leads to phosphorylation of EIF2S1/EIF2-alpha and inhibition of translation and induction of apoptosis. Mutations in PRKRA are associated with dystonia.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PRKRA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 336 amino acids (1-313a.a) and having a molecular mass of 36.8kDa. PRKRA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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