

Recombinant Protein Kinase A holoenzyme type II alpha

Certificate of Analysis and Data Sheet

Source: E.Coli	Catalog No. PKA-205
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🔍 **Description :**

Inactive holoenzyme consisting of one dimeric regulatory subunit type II alpha and two monomeric catalytic subunits (cAMP-free).

Recombinant Protein Kinase A is purified by proprietary chromatographic techniques.

🔍 **Physical Appearance:**

Sterile Filtered clear solution.

🔍 **Formulation:**

Recombinant PKA holoenzyme type-II alpha is supplied in 50% glycerol.

🔍 **Storage:**

Recombinant PKA should be stored at 4°C if entire vial will be used within 2-4 weeks. For long term storage it is recommended to store at -20°C.

Please avoid freeze-thaw cycles.

🔍 **Purity:**

Greater than 95.0% as determined by:

(a) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

🔍 **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

🔍 **Biological Activity:**

Recombinant Holo enzyme can be activated by adding the second messenger cAMP (Activation constant about 100nM) releasing two monomeric catalytic subunits.

🔍 **Applications:**

The product is suitable for analysing PKA type II agonists (cAMP analogs) or antagonists.

🔍 **Usage:**

This material is offered for research, laboratory or further evaluation purposes.

🔍 **Latest Publications:**

1. Mapping intersubunit interactions of the regulatory subunit (RIalpha) in the type I holoenzyme of protein kinase A by amide hydrogen/deuterium exchange mass spectrometry (DXMS).

J Mol Biol 2004 Jul 23;340(5):1185-96

2. Human myometrial quiescence and activation during gestation and parturition involve dramatic changes in expression and activity of particulate type II (RII alpha) protein kinase A holoenzyme.

J Clin Endocrinol Metab 2003 May;88(5):2194-205