PKA kinase activity kit

Non-radioactive protein kinase assay provides rapid and sensitive detection

The PKA Kinase activity kit is an efficient assay that utilizes little sample volume. This kit gives you the ability to an end-point or kinetic assay read-out in a convenient 96-well plate based assay and offers easy sample handling protocols. The assay also offers a high signal to background ratio.

PKA (Protein Kinase A), also known as cAMP-dependent protein kinase, phosphorylates serine or threonine residues in target protein in response to elevated levels of cAMP. Inactive PKA exists as a tetrameric protein composed of two regulatory (R) subunits and two catalytic (C) subunits. Activation occurs when two cAMP molecules bind to each R subunit which causes a conformational change that releases the active C subunits.

Citations: 78 View Online »

Ordering Information

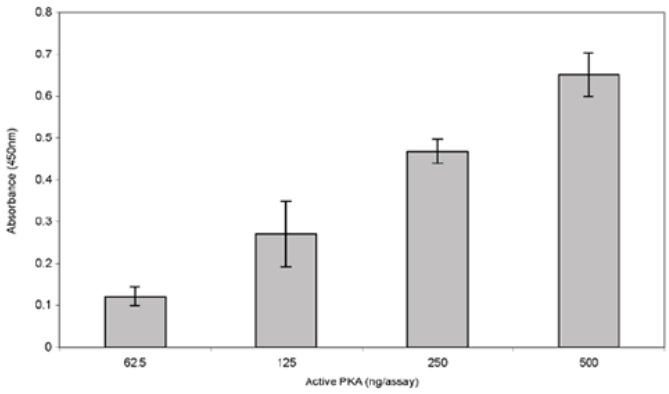
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ADI-EKS-390A	96 wells

Manuals, SDS & CofA

View Online »

- Safe and non-radioactive colorimetric measurement of kinase activity
- Flexible format, kinetic and end-point options available
- Fast results in < 4.5 hours
- Efficiency maximized with only 30 µl diluted sample needed per well



Analysis of purified active PKA activity with EKS-390A. Varying quantities of purified active PKA were assayed using the PKA substrate microtiter plate. Assays were incubated for 60 min. at 30°C.

Handling & Storage

Use/Stability	Store all components at 4°C, except active kinase at -80°C.
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Protein kinase A, cAMP-dependent protein kinase
Application	Activity assay, Colorimetric detection
Application Notes	For the quantitative determination of PKA kinase activity in partially purified, purified, or crude enzyme preparations from any species.
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter plate, Antibody, Conjugate, Antibody dilution buffer, Kinase assay dilution buffer, ATP, Active Kinase, Wash buffer concentrate, TMB Substrate, Stop solution 2
Species Reactivity	Species independent
UniProt ID	P17612 (Cα subunit), P22694 (Cβ subunit), P22162 (Cγ subunit), P10644 (RIα subunit), P31321 (RIβ subunit), P13861 (RIIα subunit), P31323 (RIIβ subunit)

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