

cAMP Direct Immunoassay Kit

Cat. No. Kit-0149 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

cAMP Direct Immunoassay Kit is used for determining cAMP level.

Description

Adenosine 3',5'-cyclic monophosphate (cyclic AMP, cAMP) is an important "second messenger" involved in many physiological processes. The cAMP Direct Immunoassay Kit provides a direct competitive immunoassay for sensitive and quantitative determination of cAMP level in biological samples. The kit utilizes recombinant Protein G coated 96-well plate to efficiently anchor cAMP polyclonal antibody onto the plate. cAMP-HRP conjugate directly competes with cAMP from sample binding to the cAMP antibody on the plate. After incubation and washing, the amount of cAMP-HRP bound to the plate can easily be determined by reading HRP activity at OD450 nm. The intensity of OD450 nm is inversely proportional to the cAMP concentration in samples. The kit provides a new acetylation procedure to improve detection sensitivity significantly. The kit can detect ~0.1-10 pmol/well (or ~ 0.02-2 μM) cAMP samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

The kit should be stored at -20°C. After opening and reconstitution, components can be stored as instructed in the table below, stable for 1 to 2 months.

Component	Storage
10X cAMP Assay Buffer	4°C
Standard cAMP (10 nmol)	-20°C
Neutralizing Buffer	4°C
Acetylating Reagent A	4°C
Acetylating Reagent B	4°C
Rabbit Anti-cAMP pAb	-20°C
cAMP-HRP	-20°C
HRP Developer	4°C
Protein G Coated Plate	-20°C

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Kit Components	10X cAMP Assay Buffer 25 mL Standard cAMP (10 nmol) 1 vial Neutralizing Buffer 7.5 mL Acetylating Reagent A 0.75 mL Acetylating Reagent B 1.5 mL Rabbit Anti-cAMP pAb 1 vial cAMP-HRP 1 vial HRP Developer 10 mL Protein G Coated Plate 1 plate
Detection method	Colorimetric
Compatible Sample Types	Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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