CREATIVE BIOMART®
Assay Kit

cAMP Direct Immunoassay Kit

Product Information

Cat.No. Kit-0149

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 1to 2 months.Component Storage10X cAMP Assay Buffer 4°CStandard cAMP (10 nmol) -20°CNeutralizing Buffer 4°CAcetylating Reagent A 4°CAcetylating Reagent B 4°CRabbit Anti-cAMP pAb -20°CcAMP-HRP -20°CHRP Developer 4°CProtein G Coated Plate -20°C

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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10X cAMP Assay Buffer 25 mLStandard cAMP (10 nmol) 1 vialNeutralizing Buffer 7.5 mLAcetylating Reagent A 0.75 mLAcetylating Reagent B 1.5 mLRabbit Anti-cAMP pAb 1 vialcAMP-HRP 1 vialHRP Developer 10 mLProtein 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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