CREATIVE BIOMART®
Assay Kit

cGMP Direct Immunoassay Kit

Product Information

Cat.No. Kit-0212

Product Overview

cGMP Direct Immunoassay Kit is used for determing cGMP level.

Description

Adenosine and guanosine 3",5"-cyclic monophosphate (cAMP and cGMP) are important "second messengers" involved in many physiological processes. The cGMP Direct Immunoassay Kit provides a direct competitive immunoassay for sensitive and quantitative determination of cGMP level in biological samples. The kit utilizes the recombinant Protein G coated plate to anchor cGMP polyclonal antibody. cGMP-HRP conjugates directly competes with cGMP from samples for binding to the cGMP specific antibody on the plate. After incubation and washing, the amount of cGMP-HRP bound to plate can easily be determined by reading OD450 nm. The intensity of OD450 nm is inversely proportional to the concentration of cGMP in samples. The kit provides a new acetylation procedure that improves detection signal significantly. The kit can detect 0.04 -10 pmol/well (0.008 - 2 μM) cGMP samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

The kit should be stored at -20°C. After reconstitution, some components may be stored at 4°C as instructedabove, stable for up to 1- 2 months.Component Storage10X cGMP Assay Buffer 4°CStandard cGMP (10 nmol) -20°CNeutralizing Buffer 4°CAcetylating Reagent A 4°CAcetylating Reagent B* 4°CAnti-cGMP pAb/BSA -20°CcGMP-HRP/BSA -20°CHRP Developer 4°CProtein G Coated Plate -20°C*Note: Acetylating Reagent B is very volatile and hence the vial has to be tightly capped and stored only at 4°C.

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
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10X cGMP Assay Buffer 25 mLStandard cGMP (10 nmol) 1 vialNeutralizing Buffer 7.5 mLAcetylating Reagent A 0.75 mLAcetylating Reagent B 1.5 mLAnti-cGMP pAb/BSA 1 vialcGMP-HRP/BSA 1 vialHRP Developer 10 mLProtein G Coated Plate 1 each

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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