

cGMP Direct Immunoassay Kit

Product Information

Cat.No.

Kit-0212

Product Overview

cGMP Direct Immunoassay Kit is used for determining 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 μ M) 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 instructed above, stable for up to 1- 2 months. Component Storage
10X cGMP Assay Buffer 4°C
Standard cGMP (10 nmol) -20°C
Neutralizing Buffer 4°C
Acetylating Reagent A 4°C
Acetylating Reagent B* 4°C
Anti-cGMP pAb/BSA -20°C
cGMP-HRP/BSA -20°C
HRP Developer 4°C
Protein 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.

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Kit Components

10X cGMP Assay Buffer 25 mL Standard cGMP (10 nmol) 1 vial Neutralizing Buffer 7.5 mL Acetylating Reagent A 0.75 mL Acetylating Reagent B 1.5 mL Anti-cGMP pAb/BSA 1 vial cGMP-HRP/BSA 1 vial HRP Developer 10 mL Protein G Coated Plate 1 each

Detection method Colorimetric

Compatible Sample Types

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