

cGMP Direct Immunoassay Kit

Cat. No. Kit-0212 **Lot. No.** (See product label)

SPECIFICATION

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

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stored only at 4°C.

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

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