

Datasheet for ABIN7540317 Cyclic GMP ELISA Kit



Overview

Quantity:	96 tests
Target:	Cyclic GMP (cGMP)
Reactivity:	Chemical
Method Type:	Competition ELISA
Detection Range:	0.3-66.7 pM/mL
Minimum Detection Limit:	0.3 pM/mL
Application:	ELISA

Product Details

Purpose:	Quantitative detection of cGMP in samples such as serum, plasma, saliva, cell culture supernatant, and urine.
Sample Type:	Serum, Plasma, Saliva, Cell Culture Supernatant, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Easy - use: All reagents and buffers for cGMP test are provided.
Cross-Reactivity (Details):	No significant cross-reactivity of similar compounds was found.
Sensitivity:	0.11 pmol/mL
Characteristics:	cGMP ELISA Detection Kit is a competition enzyme-linked immunoassay which can be used for quantitative detection of cGMP (Guanosine 3',5'-cyclic monophosphate) in samples such as serum, plasma, saliva, cell culture supernatant, and urine. cGMP is an important secondary

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7540317 | 01/02/2025 | Copyright antibodies-online. All rights reserved. messenger in signal transduction pathways. It is a common regulator of ion channel conductance, glycogenolysis, and cellular apoptosis. cGMP is a cyclic nucleotide derived from guanosine triphosphate (GTP). The cellular production of cGMP is mediated by Guanylate cyclase (GC). It activates the cGMP-dependent protein kinases which in turn phosphorylate several downstream protein targets. cGMP has an effect on the regulation of cAMP levels by activating or inhibiting specific phosphodiesterases (PDEs). The anti-IgG Capture Plate is precoated with fixed amount of Goat anti-rabbit IgG to capture Rabbit Anti-cGMP Polyclonal Antibody. When free cGMP or specimen and HRP-cGMP conjugate are added to the well, they compete in the solution to interact with the cGMP antibody captured on the plate. Other unbound molecules are removed by a wash step. The cGMP-HRP reacts with TMB substrate to develop a blue product in the solution. The reaction is stopped by adding stop solution and the color turns yellow which can be read at 450 nm by a Microtiter plate reader. Using the standard curve, the amount of cGMP present in the unknown samples can be calculated by transforming its absorbance value.

Components:

Anti-IgG Capture Plate: 1 plate (8 wells x 12 strips) Anti-cGMP pAb: 12 ml HRP-cGMP: 6 ml cGMP Standards (0, 0.3, 0.8, 2.5, 7.4, 22.2, 66.7 pmol/ml): 1.5 ml cGMP Standard Stock (10 nmol/ml): 500 µl Assay Buffer A: 60 ml Assay Buffer B: 1 ml 20 × Wash Solution: 40 ml TMB Substrate: 12 ml Stop Solution: 6 ml Plate Sealer: 2 pieces User Manual: 1 copy

Target Details

Target:	Cyclic GMP (cGMP)
Alternative Name:	cGMP (cGMP Products)
Target Type:	Chemical
Background:	CGMP is an important secondary messenger in signal transduction pathways. It is a common regulator of ion channel conductance, glycogenolysis, and cellular apoptosis. cGMP is a cyclic
	nucleotide derived from guanosine triphosphate (GTP). The cellular production of cGMP is

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7540317 | 01/02/2025 | Copyright antibodies-online. All rights reserved. mediated by Guanylate cyclase (GC). It activates the cGMP-dependent protein kinases which in turn phosphorylate several downstream protein targets. cGMP has an effect on the regulation of cAMP levels by activating or inhibiting specific phosphodiesterases (PDEs).

Application Details

Assay Time:	2.5 h
Plate:	Pre-coated
Protocol:	The anti-IgG Capture Plate is pre-coated with fixed amount of Goat anti-rabbit IgG to capture
	Rabbit Anti-cGMP Polyclonal Antibody. When free cGMP or specimen and HRP-cGMP
	conjugate are added to the well, they compete in the solution to interact with the cGMP
	antibody captured on the plate. Other unbound molecules are removed by a wash step. The
	cGMP-HRP reacts with TMB substrate to develop a blue product in the solution. The reaction is
	stopped by adding stop solution and the color turns yellow which can be read at 450 nm by a
	Microtiter plate reader. Using the standard curve, the amount of cGMP present in the unknown
	samples can be calculated by transforming its absorbance value.
Restrictions:	For Research Use only
Handling	
Handling Advice:	Do not freeze the kit.
Storage:	4 °C
Storage Comment:	The unopened kit is stable for at least 12 months if stored at 2-8 °C, and the opened kit is stable
	for up to 2 weeksat 2-8 °C.
Expiry Date:	12 months