cGMP ELISA kit

Most sensitive (0.088 pmol/ml) colorimetric kit for extracellular cGMP quantification.

This is a colorimetric competitive immunoassay kit for the quantitative determination of extracellular cGMP. Sensitivity is increased by acetylation (reagents included). Absorbance is read at 405 nm.The ready-to-use liquid color-coded reagents provided reduce error.

Cyclic GMP (cGMP), which has been shown to be present at levels typically 10-100 fold lower than cAMP, is formed by the action of the enzyme guanylate cyclase on GTP. Some hormones, such as Acetylcholine, Insulin, and Oxytocin, as well as certain other chemicals like Serotonin and Histamine cause an increase in cGMP levels. Stimulators of guanylate cyclase such as the vasodilators nitroprusside, nitroglycerin, sodium nitrate, and nitric oxide (NO) also stimulate cGMP levels.

Citations: 34 View Online »

Ordering Information

Order Online »

ADI-901-013	5x96 wells

Manuals, SDS & CofA

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- Sensitive – optional acetylation protocol increases sensitivity 10-fold (0.088 pmol/ml)
- Rapid – reliable results in just 3 hours
- Trusted – regularly cited in peer-reviewed publications
- Reduce errors – ready-to-use color-coded reagents and pre-coated plates
- Simple – efficient and well-established sample handling protocols
- Reliable – consistent lot-to-lot performance
- Save with bulk kit package!

Handling & Storage

Use/Stability	Store all components at +4°C, except standard and conjugate at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	cyclic GMP
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of cGMP in culture supernatants, plasma, serum, saliva, and urine from any species.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR Microtiter plate, Conjugate, Antibody, Assay buffer 2 concentrate, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution, Acetic anhydride, Triethylamine
Crossreactivity	cyclic GMP (100%) and <0.001%: GMP, GTP, cyclic AMP, AMP, ATP, cyclic UMP, CTP
Sensitivity	(non-acetylated) 0.37 pmol/ml; (acetylated) 0.088 pmol/ml (range (non-acetylated) 0.16 – 500 pmol/ml; (acetylated) 0.16 – 100 pmol/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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