

cGMP ELISA Kit

SKU: GXEL00004 | Assay: Quantitative ELISA (Colorimetric)

The cGMP ELISA Kit (SKU: GXEL00004) is a high-sensitivity quantitative ELISA for the quantitative measurement of cGMP in Plasma, Serum. The assay covers a detection range of 0.78-100 pmol/mL with a sensitivity of 0.78 pmol/mL and is read colorimetrically at 450 nm.

Background: Guanosine 3',5'-cyclic monophosphate (cGMP) is a key second messenger molecule in intracellular signal transduction. Monitoring cGMP levels is one of the most common ways to screen for agonists and antagonists of G protein-coupled receptors (GPCRs). Bioeye gene cGMP ELISA Kit is based on the competition between HRP-labeled cGMP and free cGMP for fixed amounts of mouse monoclonal anti-cAMP antibody (cGMP MAb) binding sites. Because the concentration of the HRP-labeled cGMP is held constant while the concentration of cGMP varies, the amount of HRP-labeled cGMP that is able to bind to the cGMP MAb will be inversely proportional to the concentration of cGMP in the well. This antigen-antibody complex binds to the goat anti-mouse IgG that has been previously attached to the well. The plate is washed to remove any unbound reagents and then developed. The ELISA typically displays an IC₅₀ (50% B/B₀) of approximately 5 pmol/mL and a detection limit of approximately 0.1 pmol/mL.

Specifications

Product Name	cGMP ELISA Kit
SKU	GXEL00004
Accession	CAS: 7665-99-8
Assay Type	Quantitative
Detection Method	Colorimetric
Sensitivity	0.78 pmol/mL
Detection Range	0.78-100 pmol/mL
Recovery	80-120%
Sample Types	Plasma, Serum
Storage	2-8°C. See Storage & Stability.
Note	For Research Use Only. Not for diagnostic procedures.

Storage & Stability

The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 10% prior to the expiration date under appropriate storage condition. Store at 2-8°C on receipt; avoid repeated freeze-thaw cycles.

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