

cAMP ELISA Kit

SKU: GXEL00385 | Assay: Quantitative ELISA (Colorimetric)

The cAMP ELISA Kit (SKU: GXEL00385) is a high-sensitivity quantitative ELISA for the quantitative measurement of cAMP in Plasma, Serum. The assay covers a detection range of 1.56-200 pmol/mL with a sensitivity of 1.56 pmol/mL and is read colorimetrically at 450 nm.

Background: Adenosine 3',5'-cyclic monophosphate (cAMP) is a key second messenger molecule in intracellular signal transduction. Monitoring cAMP levels is one of the most common ways to screen for agonists and antagonists of G protein-coupled receptors (GPCRs). Bioeye gene cAMP ELISA Kit is based on the competition between HRP-labeled cAMP and free cAMP for fixed amounts of mouse monoclonal anti-cAMP antibody (cAMP MAb) binding sites. Because the concentration of the HRP-labeled cAMP is held constant while the concentration of cAMP varies, the amount of HRP-labeled cAMP that is able to bind to the cAMP MAb will be inversely proportional to the concentration of cAMP 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 12 pmol/mL and a detection limit of approximately 0.15 pmol/mL.

| Specifications | |
|------------------|---|
| Product Name | cAMP ELISA Kit |
| SKU | GXEL00385 |
| Assay Type | Quantitative |
| Detection Method | Colorimetric |
| Sensitivity | 1.56 pmol/mL |
| Detection Range | 1.56-200 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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