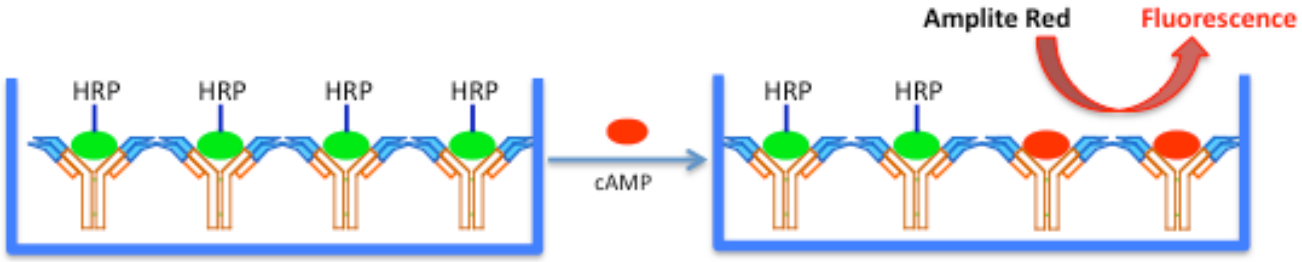
Data Sheet

ACTOne™ cAMP Fluorimetric ELISA Assay Kit

Ordering Information	Storage Conditions	Instrument Platform
Product Number: AG-10500-503 (1 plate) AG-10500-513 (10 plates)	Keep in 4°C Avoid exposure to light	Fluorometric Microplate Reader

Introduction

Adenosine 3', 5' cyclic monophosphate (cAMP) is an important second messenger in intracellular signal transduction. Monitoring cAMP levels is one of the most common ways to screen for agonists and antagonists of GPCRs. ACTOne™ cAMP Fluorimetric ELISA Assay Kit is based on the competition between HRP-labeled cAMP and free cAMP for a fixed number of cAMP antibody binding sites. In the absence of free cAMP, HRP-cAMP conjugate is bound to anti-cAMP antibody exclusively. In the presence of free cAMP, HRP-cAMP is displaced from the HRP-cAMP/anti-cAMP antibody complex.



Maxium HRP activity (No cAMP)

Decreasing HRP activity (Increasing free cAMP)

Our ACTOne™ cAMP Florimetric ELISA Assay Kit provides the sensitive method for detecting cAMP level in biochemical or cell-based assay system. Compared to other ELISA cAMP assay kits, our kit eliminates the tedious acetylation step. The kit uses Amplite™ Red as a fluorimetric substrate to quantify the HRP activity. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation. The fluorescent product formed is proportional to the activity of HRPcAMP conjugate.

Kit Components

Component	AG-10500-503 (1 plate)	AG-10500-513 (10 plates)
Component A: cAMP Standard	1 vial (33ug)	1 vial (33ug)
Component B: Assay Buffer	50ml	500ml
Component C: HRP-cAMP Conjugate	1 vial	1 vial
Component D: 10X Wash Solution	20ml	2x100ml
Component E: Cell Lysis Buffer	10ml	100ml
Component F: 3% H_2O_2	50ul	50ul
Component G: Amplite™ Red	1 vial	1 vial
Component H: Anti-cAMP Ab Coated 96-well Plate	1 plate	10 plates
Component I: Substrate Buffer	20ml	2x100ml

Note: Do not freeze Anti-cAMP Ab Pre-coated 96-well plate (Component H), store it at 4ºC.