

## Rat Adrenocorticotrophic Hormone (ACTH) Assay Kit | ACTH assay kit

Adrenocorticotrophic Hormone (ACTH) Magnetic Fluorescence Assay Kit

CATALOG #  
**AAA155945**

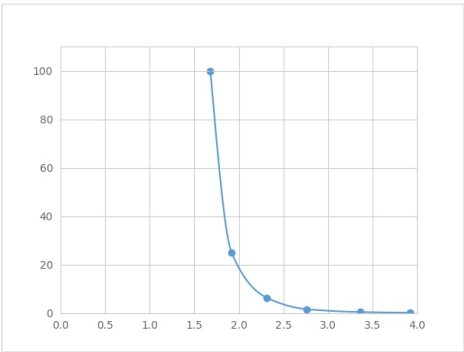
REACTIVITY  
**Rat**

### PRODUCT SYNONYMS

Adrenocorticotrophic Hormone (ACTH); Adrenocorticotrophic Hormone (ACTH) Magnetic Fluorescence Assay Kit; Corticotropin; Adrenocorticotropin; Adrenocorticotrophic Hormone; ACTH assay kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of Adrenocorticotrophic Hormone (ACTH), etc. No significant cross-reactivity or interference between Adrenocorticotrophic Hormone (ACTH), etc. and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assay Type              | Competitive Inhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Samples                 | serum, plasma and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Detection Range         | 0.1-100pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sensitivity             | The minimum detectable dose of this kit is typically less than 0.033 pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precision               | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Adrenocorticotrophic Hormone (ACTH), etc. were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Adrenocorticotrophic Hormone (ACTH), etc. were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%<br>Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                           |
| Research Area           | Endocrinology, Hormone metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assay Procedure Summary | 1. Preparation of standards, reagents and samples before the experiment<br>2. Add 50uL standard or sample to each well, add 10uL magnetic beads, and 50uL Detection Reagent A, incubate 90min at 37 degree C on shaker<br>3. Wash plate on magnetic frame for three times<br>4. Add 100uL prepared Detection Reagent B, and incubate 30 min at 37 degree C on shaker<br>5. Wash plate on magnetic frame for three times<br>6. Add 100uL sheath solution, swirl for 2 minutes, read on the machine.                                                                                                                                                                                                                                                                                                                             |
| Test Principle          | Analyte-specific antibodies are pre-coated onto color-coded microparticles. Microparticles, standards, Labeled antigen and samples are pipetted into wells and the immobilized antibodies bind the analytes of interest. A competitive inhibition reaction is launched between biotin labeled analytes of interest and unlabeled analytes of interest (Standards or samples) with the pre-coated antibody specific to analytes of interest. Following a wash to remove any unbound substances, Streptavidin-Phycoerythrin conjugate (Streptavidin-PE) is added to each well. A final wash removes unbound Streptavidin-PE and the microparticles are resuspended in buffer and read using fluorescent spectrum analyzer. The MFI developed is reverse proportional to the concentration of analytes of interest in the sample. |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.                                                                                                                                                                                                                                                                                                                                     |



Standard Curve (Sample)

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-assay-kits/adrenocorticotrophic-hormone-acth/155945>