

## Rat Prostaglandin F2 Alpha ELISA Kit | PGF2alpha elisa kit

Rat Prostaglandin F2 Alpha ELISA Kit

CATALOG #  
AAA101366

REACTIVITY  
Rat

### PRODUCT SYNONYMS

Prostaglandin F2 Alpha; Rat Prostaglandin F2 Alpha ELISA Kit; PGF2alpha ; PGF2alpha elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                       |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of PGF2. No significant cross-reactivity or interference between PGF2 and analogues is observed.                                  |
| Sequence Length         | 359                                                                                                                                                                                                       |
| Assay Type              | Competitive ELISA, Coated with Antigen                                                                                                                                                                    |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                      |
| Detection Range         | 7.813-500pg/ml                                                                                                                                                                                            |
| Sensitivity             | 4.688pg/ml                                                                                                                                                                                                |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PGF2 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PGF2 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                              |

### IMAGES

#### Typical Data & Standard Curve

Results of a typical standard operation of a PGF2  $\alpha$  ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain standard curve as per experiment by themselves. (N/A=not applicable)

| X | pg/ml | 0     | 7.812 | 15.625 | 31.25 | 62.5  | 125  | 250   | 500   |
|---|-------|-------|-------|--------|-------|-------|------|-------|-------|
| Y | OD450 | 2.321 | 1.117 | 0.8    | 0.515 | 0.342 | 0.22 | 0.166 | 0.134 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for PGF2alpha elisa kit

Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with PGF2. During the reaction, PGF2 in the sample or standard competes with a fixed amount of PGF2 on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to PGF2. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of PGF2 in the samples is then determined by comparing the O D of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                   |
|----------------------------------|-----------------------------------|
| NCBI GI #                        | 2257850                           |
| NCBI GeneID                      | 5737                              |
| Molecular Weight                 | 30,766 Da                         |
| NCBI Official Full Name          | prostaglandin F2 alpha receptor   |
| NCBI Official Synonym Full Names | prostaglandin F receptor          |
| NCBI Official Symbol             | PTGFR                             |
| NCBI Official Synonym Symbols    | FP                                |
| NCBI Protein Information         | prostaglandin F2-alpha receptor   |
| UniProt Protein Name             | Prostaglandin F2-alpha receptor   |
| UniProt Gene Name                | <b>PTGFR</b>                      |
| UniProt Synonym Gene Names       | PGF receptor; PGF2-alpha receptor |
| UniProt Entry Name               | PF2R_HUMAN                        |

**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/pgf2alpha-rat-elisa-kits/prostaglandin-f2-alpha/101366>