

RAT PROGESTERONE ELISA KIT

Catalog number

Rat Progesterone ELISA Kit80558

Intended use

A high quality enzymatic assay for the quantification of rat progesterone in rat serum and plasma.

Test principle

Crystal Chem's Rat Progesterone ELISA kit is an enzyme-linked immunosorbent assay based on the principle of competitive binding. An unknown amount of progesterone present in the sample and a defined amount of progesterone conjugated to horseradish peroxidase compete for the binding sites of progesterone antiserum coated to the wells of a microplate. After incubation and a wash step, a substrate solution is added, and the concentration of progesterone is inversely proportional to the optical density measured.

Specifications

Sample Types	Serum and Plasma
Assay Time	1.5 hours
Range	0.4 - 100 ng/mL
Sample Size	10 μ L
Precision	CV < 10 %
Sensitivity	0.04 ng/mL

Highlights

- ✓ Kits use only 10 μ L sample
- ✓ No separate extraction required
- ✓ High sensitivity (0.04ng/mL)
- ✓ Low cost per sample

Summary of protocol

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graph TD
    A[Add 10  $\mu$ L sample or standard per well] --> B[Add 50  $\mu$ L incubation buffer]
    B --> C[Add 50  $\mu$ L enzyme conjugation solution]
    C --> D[Incubate for 1 hour, room temperature (600 RPM)]
    D --> E[Wash plate]
    E --> F[Add 200  $\mu$ L substrate solution]
    F --> G[Incubate for 30 minutes in the dark]
    G --> H[Add 50  $\mu$ L stop solution]
    H --> I[Measure OD at 450/630 nm]
  
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