Coud-Clone Corp.

APA846Eq01 100µg Active Prolactin (PRL) Organism Species: Equus caballus; Equine (Horse) Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression. Host: *E. coli* Residues: Leu31~Cys229 Tags: N-terminal His-tag Purity: >95% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5%Trehalose . Original Concentration: 200µg/mL Applications: Cell culture; Activity Assays. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 6.5 Predicted Molecular Mass: 26.7kDa Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.

[<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Cloud-Clone Corp.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

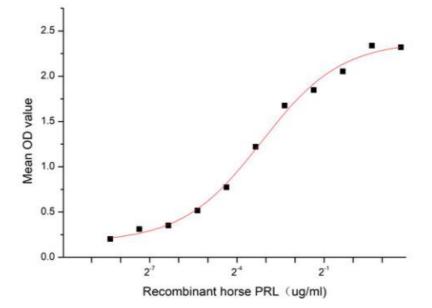
[SEQUENCE]

LPICPSGAVNCQVSLRELFDRAVILSHYIHNLSSEMFNEFDKRYAQGRGFVTKAINSCHTSSLSTPEDKEQAQQIHHEDLLNLILRVLRSWNDPLYHLV SEVRGMQEAPEAILSKAIEIEEQNRRLLEGMEKIVGQVQPRIKENEVYSVWSGLPSLQMADEDSRLFAFYNLLHCLRRDSHKIDNYLKLLKCRIVYDSN C

[ACTIVITY]

PRL (prolactin), also known as luteotropin, is a hormone secreted from the pituitary gland and is best known for its role in enabling mammals to produce milk. PRL plays an essential role in metabolism, regulation of the immune system through activating its specific membrane-anchored receptor (PRLR). A functional binding ELISA assay was conducted to detect the interaction of recombinant horse PRL and recombinant human PRLR. Briefly, PRL was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ I were then transferred to PRLR-coated microtiter wells and incubated for 1h at 37 °C . Wells were washed with PBST and incubated for 1h with anti-PRL pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 °C, wells were incubated 15-25 minutes at 37 °C. Finally, add 50 μ L stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant horse PRL and recombinant human PRLR was shown in Figure 1, the EC50 for this effect is 0.11 ug/mL.

Cloud-Clone Corp.





[IDENTIFICATION]

	kDa 70
	44
	33
-	26
	22
	18
	14
	10

Figure 2. SDS-PAGE

Sample: Active recombinant PRL, Horse

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.