CPA843Hu21 100µg OVA Conjugated Gonadotropin Releasing Hormone (GnRH) Organism Species: Homo sapiens (Human) *Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Antigen: GnRH-OVA Residues: Synthetic Peptide Predicted isoelectric point: 6.9 Predicted Molecular Mass: 1201.3Da Purity: >95% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Formulation: Supplied as Iyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl. Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

[RELEVANCE]

Gonadotropin Releasing Hormone (GnRH), also known as Luteinizing-hormonereleasing hormone (LHRH) and luliberin, is a trophic peptide hormone responsible for the release of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) from the anterior pituitary. GnRH is synthesized and released from neurons within the hypothalamus. The peptide belongs to gonadotropin-releasing hormone family. While GnRH has been synthesized and become available, its short half-life requires infusion pumps for its clinical use. Modifications of the decapeptide structure of GnRH have led to GnRH1 analog medications that either stimulate (GnRH1 agonists) or suppress (GnRH antagonists) the gonadotropins.

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[<u>USAGE</u>]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[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.

Stability Test: The thermal stability is described by the loss rate of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[<u>SEQUENCES</u>]

The synthetic peptide's sequence is listed below. EHWSYGLRPG