Human Luteinizing Hormone ELISA Kit ab108651

Overview

Product name: Human Luteinizing Hormone ELISA Kit
Detection method: Colorimetric
Sample type: Serum
Assay type: Sandwich (quantitative)
Sensitivity: = 1 mIU/ml
Range: 1 mIU/ml - 200 mIU/ml
Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Human

Product overview

ab108651 Luteinizing Hormone Human ELISA Kit is intended for the quantitative determination of luteinizing hormone (LH) concentration in human serum.

Luteinizing hormone (LH) is produced in both men and women from the anterior pituitary gland in response to luteinizing hormone-releasing hormone (LH-RH or Gn-RH), which is released by the hypothalamus. LH, also called interstitial cell-stimulating hormone (ICSH) in men, is a glycoprotein with a molecular weight of approximately 30,000 daltons. It is composed of two noncovalently associated dissimilar amino acid chains, alpha and beta. The alpha chain is similar to that found in human thyroid-stimulating hormone (TSH), follicle-stimulating hormone (FSH), and human chorionic gonadotropin (hCG). The differences between these hormones lie in the amino acid composition of their beta subunits, which account for their immunological differentiation.

The basal secretion of LH in men is episodic and has the primary function of stimulating the interstitial cells (Leydig cells) to produce testosterone. The variation in LH concentrations in women is subject to the complex ovulatory cycle of healthy menstruating women, and depends on a sequence of hormonal events along the gonado-hypothalamic-pituitary axis.

Tested applications

Suitable for: Sandwich ELISA
Platform: Microplate

Properties

Storage instructions: Store at +4°C. Please refer to protocols.

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enzyme Conjugate Reagent</td>
<td>1 x 13ml</td>
</tr>
</tbody>
</table>
### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH Reference Standard 0 (0 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>LH Reference Standard 1 (5 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>LH Reference Standard 2 (15 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>LH Reference Standard 3 (50 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>LH Reference Standard 4 (100 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>LH Reference Standard 5 (200 mIU/ml)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Mouse monoclonal anti-α LH coated microtiter plate</td>
<td>1 unit</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 11ml</td>
</tr>
<tr>
<td>TMB Reagent</td>
<td>1 x 11ml</td>
</tr>
</tbody>
</table>

### Function
- Promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids.

### Tissue specificity
- Pituitary gland.

### Involvement in disease
- Defects in LHB are a cause of hypogonadism LHB-related (HGON-LHB) [MIM:152780]. Hypogonadism is characterized by infertility and pseudohermaphroditism.

### Sequence similarities
- Belongs to the glycoprotein hormones subunit beta family.

### Cellular localization
- Secreted.

### Applications

Our Abpromise guarantee covers the use of ab108651 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent dilution.</td>
</tr>
</tbody>
</table>

### Images

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