

Product Information

Luteinizing Hormone from human pituitary

Catalog Number **L5259**
Storage Temperature 2–8 °C

CAS RN 39341-83-8
Synonyms: LH, ICSH, PLH

Product Description

Luteinizing Hormone has molecular mass of 26 kDa. It is composed of two 13 kDa subunits, α and β . The amino acid sequences of the two subunits have been published.^{1,2} The structure of the carbohydrate moieties of the α subunit has also been published.³

pI: 5.4

Levels of contaminating glycoprotein hormones:

- <2% follicle stimulating hormone
- <2% thyroid stimulating hormone
- <1% growth hormone
- <1% prolactin
- <1% ACTH

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

When reconstituted with 0.1 ml water, the product will be in a solution of 50 mM sodium phosphate buffer, pH 7.4.

Storage/Stability

Store the product at 2–8 °C.

Solutions should be stored at 2–8 °C, not frozen. The reconstituted solution should remain active for one month stored at 2–8 °C. Growth of bacteria in the solution can cause denaturation of the protein, resulting in a cloudy solution.

References

1. Keutmann, H.T. et al., Structure of Human Luteinizing Hormone Alpha Subunit. *Endocr. Res. Commun.*, **5(1)**, 57-70 (1978).
2. Keutmann, H.T. et al., Structure of Human Luteinizing Hormone Beta Subunit: Evidence For a Related Carboxyl-terminal Sequence Among Certain Peptide Hormones. *Biochem. Biophys. Res. Commun.*, **90(3)**, 842-848 (1979).
3. Hara, K. et al., Structure Of the Carbohydrate Moieties Of Alpha Subunits Of Human Follitropin, Lutropin, and Thyrotropin. *J. Biol. Chem.*, **253(5)**, 1582-1591 (1978).

IRB,RXR,MAM 10/10-1

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.