

Human Luteinizing Hormone Reference standard

Cat. No. LHCGR-64H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This consists of a batch of ampoules containing highly purified human pituitary LH. For further details of this Standard and its collaborative study see Storrington & Gaines Das (1993).
Species	Human
Enzyme Unit	35 INTERNATIONAL UNITS per ampoule (by definition). Uncertainty: the assigned unitage is arbitrary and does not carry an uncertainty associated with its calibration. The uncertainty may therefore be considered to be the variance of the ampoule content, and was experimentally measured as $\pm 0.25\%$ (cv)
Usage	For practical purposes each ampoule contains the same amount of the same materials. Dissolve all the contents in a known amount of buffer solution. No attempt should be made to weigh portions of the freeze-dried powder. For economy of use the solution can be kept for several months if an anti-bacterial preservative is added and the solution is subdivided into several small containers, which are frozen rapidly to below -70°C and then stored below -30°C in the dark; repeated freezing and thawing should be avoided. If extensive dilutions are prepared, a carrier protein (0.1% w/v) should be added, which is free of peptidase. The material has not been sterilized and contains no bacteriostat.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and

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HCV RNA. However, as with all materials of human origin, the preparation cannot be assumed to be free from infectious agents. The container and its contents should be used and discarded according to your own laboratory procedures. Such procedures probably will include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening the container to avoid cuts.

Storage

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name [LHCGR luteinizing hormone/choriogonadotropin receptor \[Homo sapiens \];](#)

Official Symbol LHCGR

Synonyms HHG; LHR; LCGR; LGR2; ULG5; LHRHR; LSH-R; LH/CGR; LH/CG-R; lutropin-choriogonadotropic hormone receptor; hypergonadotropic hypogonadism; lutropin/choriogonadotropin receptor

Gene ID [3973](#)

mRNA Refseq [NM_000233](#)

Protein Refseq [NP_000224](#)

MIM [152790](#)

UniProt ID [P22888](#)

Chromosome 2p21

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Location	
Pathway	Arf6 signaling events, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem
Function	choriogonadotropin hormone binding; choriogonadotropin hormone receptor activity; luteinizing hormone receptor activity

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