

Lutropin-choriogonadotropic hormone receptor (LHCGR) Recombinant Protein | LHCGR recombinant protein

Recombinant Human Lutropin-choriogonadotropic hormone receptor (LHCGR), partial

CATALOG # AAA113759	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

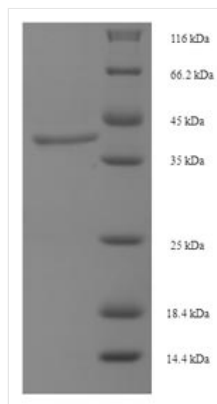
PRODUCT SYNONYMS

Lutropin-choriogonadotropic hormone receptor (LHCGR); Recombinant Human Lutropin-choriogonadotropic hormone receptor (LHCGR); partial; Luteinizing hormone receptor; LHR; LSH-R; LHCGR recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	27-363aa; Partial
Sequence	EALCPEPCNC VPDGALRCPG PTAGLTRLSL AYLPVKVIPS QAFRGLNEVI KIEISQIDSL ERIEANAFDN LLNLSEILIQ NTKNLRYIEP GAFINLPRLK YLSICNTGIR KFPDVTKVFS SESNFILEIC DNLHITTIPG NAFQGMNNE VTLKLYGNF EEVQSHAFNG TTLTSLELKE NVHLEKMHNG AFRGATGPKT LDISSTKLQA LPSYGLESIQ RLIATSSYSL KKLPSRETFV NLEATLTYP SHCCAFRNLP TKEQNFHSI SENFSKQCES TVRKVNNKTL YSSMLAESEL SGWDYEGFC LPKTPRCAPE PDAFNPCEDI MGYDFLR
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for LHCGR recombinant protein	Receptor for lutropin-choriogonadotropic hormone. The activity of this receptor is mediated by G proteins which activate adenylate cyclase.
Product Categories/Family for LHCGR recombinant protein	Neuroscience

References

- Cloning and sequencing of human LH/hCG receptor cDNA. Minegishi T., Nakamura K., Takakura Y., Miyamoto K., Hasegawa Y., Ibuki Y., Igarashi M. *Biochem. Biophys. Res. Commun.* 172:1049-1054(1990) Expression of human luteinizing hormone (LH) receptor interaction with LH and chorionic gonadotropin from human but not equine, rat, and ovine species. Jia X.-C., Oikawa M., Bo M., Tanaka T., Ny T., Boime I., Hsueh A.J.W. *Mol. Endocrinol.* 5:759-768(1991) Isolation of TSH and LH/CG receptor cDNAs from human thyroid regulation by tissue specific splicing. Frazier A.L., Robbins L.S., Stork P.J., Sprengel R., Segaloff D.L., Cone R.D. *Mol. Endocrinol.* 4:1264-1276(1990) Structure of the human luteinizing hormone-choriogonadotropin receptor gene unusual promoter and 5' non-coding regions. Atger M., Misrahi M., Sar S., Leflem L., Dessen P., Milgrom E. *Mol. Cell. Endocrinol.* 111:113-123(1995) Generation and annotation of the DNA sequences of human chromosomes 2 and 4. Hillier L.W., Graves T.A., Fulton R.S., Fulton L.A., Pepin K.H., Minx P., Wagner-McPherson C., Layman D., Wylie K., Sekhon M., Becker M.C., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Krenitzki C., Oddy L., Du H., Sun H., Bradshaw-Cordum H., Ali J., Carter J., Cordes M., Harris A., Isak A., van Brunt A., Nguyen C., Du F., Courtney L., Kalicki J., Ozersky P., Abbott S., Armstrong J., Belter E.A., Caruso L., Cedroni M., Cotton M., Davidson T., Desai A., Elliott G., Erb T., Fronick C., Gaige T., Haakenson W., Haglund K., Holmes A., Harkins R., Kim K., Kruchowski S.S., Strong C.M., Grewal N., Goyea E., Hou S., Levy A., Martinka S., Mead K., McLellan M.D., Meyer R., Randall-Maher J., Tomlinson C., Dauphin-Kohlberg S., Kozlowski-Reilly A., Shah N., Swearingen-Shahid J.E., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski S.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendt M.C., Yang S.-P., Pohl J.W., Spieth J., Bieri T.A., Berkowicz N., Nelson J.O., Osborne J., Ding L., Meyer R., Sabo A., Shotland Y., Sinha P., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Jones T.A., She X., Ciccarelli F.D., Izaurralde E., Taylor J., Schmutz J., Myers R.M., Cox D.R., Huang X., McPherson J.D., Mardis E.R., Clifton S.W., Warren W.C., Chinwalla A.T., Eddy S.R., Marra M.A., Ovcharenko I., Furey T.S., Miller W., Eichler E.E., Bork P., Suyama M., Torrents D., Waterston R.H., Wilson R.K. *Nature* 434:724-731(2005) Genomic distribution and gonadal mRNA expression of two human luteinizing hormone receptor exon 1 sequences in random populations. Tsai-Morris C.-H., Geng Y., Buczeko E., Dehejia A., Dufau M.L. *Hum. Hered.* 49:48-51(1999) Evidence that palmitoylation of carboxyl terminus cysteine residues of the human luteinizing hormone receptor regulates postendocytic processing. Munshi U.M., Clouser C.L., Peegel H., Menon K.M. *Mol. Endocrinol.* 19:749-758(2005) Structural predictions for the ligand-binding region of glycoprotein hormone receptors and the nature of hormone-receptor interactions. Jiang X., Dreano M., Buckler D.R., Cheng S., Ythier A., Wu H., Hendrickson W.A., el Tayar N. *Structure* 3:1341-1353(1995) Gonadotropin-independent precocious puberty due to luteinizing hormone receptor mutations in Brazilian boys a novel constitutively activating mutation in the first transmembrane helix. Latronico A.C., Shinozaki H., Guerra G. Jr., Pereira M.A.A., Lemos Marini S.H.V., Baptista M.T.M., Arnhold I.J.P., Fanelli F., Mendonca B.B., Segaloff D.L. *J. Clin. Endocrinol. Metab.* 85:4799-4805(2000) Nodular Leydig cell hyperplasia in a boy with familial male-limited precocious puberty. Leschek E.W., Chan W.-Y., Diamond D.A., Kaefer M., Jones J., Barnes K.M., Cutler G.B. Jr. *J. Pediatr.* 138:949-951(2001) Mutant luteinizing hormone receptors in a compound heterozygous patient with complete Leydig cell hypoplasia abnormal processing causes signaling deficiency. Martens J.W.M., Lumbroso S., Verhoef-Post M., Georget V., Richter-Unruh A., Szarras-Czapnik M., Romer T.E., Brunner H.G., Themmen A.P.N., Sultan C.J. *Clin. Endocrinol. Metab.* 87:2506-2513(2002) Luteinizing hormone signaling and breast cancer polymorphisms and age of onset. Powell B.L., Piersma D., Kevenaar M.E., van Staveren I.L., Themmen A.P.N., Iacopetta B.J., Berns E.M.J.J. *J. Clin. Endocrinol. Metab.* 88:1653-1657(2003) A constitutively activating mutation of the luteinizing hormone receptor in familial male precocious puberty. Shenker A., Laue L., Kosugi S., Merendino J.J. Jr., Minegishi T., Cutler G.B. Jr. *Nature* 365:652-654(1993) Cosegregation of missense mutations of the luteinizing hormone receptor gene with familial male-limited precocious puberty. Kremer H., Mariman E., Otten B.J., Moll G.W. Jr., Stoelinga G.B.A., Wit J.M., Jansen M., Drop S.L., Faas B., Ropers H.-H., Brunner H.G. *Hum. Mol. Genet.* 2:1779-1783(1993) Characterization of heterogeneous mutations causing constitutive activation of the luteinizing hormone receptor in familial male precocious puberty. Kosugi S., van Dop C., Geffner M.E., Rabl W., Carel J.-C., Chaussain J.-L., Mori T., Merendino J.J. Jr., Shenker A. *Hum. Mol. Genet.* 4:183-188(1995) A new constitutively activating point mutation in the luteinizing hormone/choriogonadotropin receptor gene in cases of male-limited precocious puberty. Yano K., Saji M., Hidaka A., Moriya N., Okuno A., Kohn L.D., Cutler G.B. Jr. *J. Clin. Endocrinol. Metab.* 80:1162-1168(1995) A novel mutation of the luteinizing hormone receptor gene causing male gonadotropin-independent precocious puberty. Latronico A.C., Anasti J., Arnhold I.J., Mendonca B.B., Domenice S., Albano M.C., Zachman K., Wajchenberg B.L., Tsigos C.J. *Clin. Endocrinol. Metab.* 80:2490-2494(1995) Male pseudohermaphroditism due to a homozygous missense mutation of the luteinizing hormone receptor gene. Kremer H., Kraaij R., Toledo S.P.A., Post M., Fridman J.B., Hayashida C.Y., van Reen M., Milgrom E., Ropers H.-H., Mariman E., Themmen A.P.N., Brunner H.G. *Nat. Genet.* 9:160-164(1995) A missense (T577I) mutation in the luteinizing hormone receptor gene associated with familial male-limited precocious puberty. Cocco S., Meloni A., Marini M.G., Cao A., Moi P.3.3.CO;2-B. *Hum. Mutat.* 7:164-166(1996) A new point mutation in the luteinising hormone receptor gene in familial and sporadic male limited precocious puberty genotype does not always correlate with phenotype. Evans B.A.J., Bowen D.J., Smith P.J., Clayton P.E., Gregory J.W.J. *Med. Genet.* 33:143-147(1996) Testicular and ovarian resistance to luteinizing hormone caused by inactivating mutations of the luteinizing hormone-receptor gene. Latronico A.C., Anasti J., Arnhold I.J.P., Rapaport R., Mendonca B.B., Bloise W., Castro M., Tsigos C., Chrousos G.P.N. *Engl. J. Med.* 334:507-512(1996) Comparison of immunocytochemical and molecular features with the phenotype in a case of incomplete male pseudohermaphroditism associated with a mutation of the luteinizing hormone receptor. Misrahi M., Meduri G., Pissard S., Bouvattier C., Beau I., Loosfelt H., Jolivet A., Rappaport R., Milgrom E., Bougneres P.J. *Clin. Endocrinol. Metab.* 82:2159-2165(1997) Polymorphisms in the coding exons of the human luteinizing hormone receptor gene. Wu S.-M., Jose M., Hallermeier K., Rennert O.M., Chan W.-Y.3.0.CO;2-D. *Hum. Mutat.* 11:333-334(1998) A mutation in the first transmembrane domain of the lutropin receptor causes male precocious puberty. Gromoll J., Partsch C.-J., Simoni M., Nordhoff V., Sippell W.G., Nieschlag E., Saxena B.B.J. *Clin. Endocrinol. Metab.* 83:476-480(1998) A novel mutation of the human luteinizing hormone receptor in 46XY and

NCBI AND UNIPROT INFORMATION

NCBI GI #	106067657
NCBI GeneID	3973
NCBI Accession #	NP_000224.2
NCBI GenBank Nucleotide #	NM_000233.3
UniProt Accession #	P22888; Q14751; Q15996; Q9UEW9
Molecular Weight	39.6 kDa
NCBI Official Full Name	lutropin-choriogonadotropic hormone receptor
NCBI Official Synonym Full Names	luteinizing hormone/choriogonadotropin receptor
NCBI Official Symbol	LHCGR
NCBI Official Synonym Symbols	HHG; LHR; LCGR; LGR2; ULG5; LHRHR; LSH-R; LH/CGR; LH/CG-R
NCBI Protein Information	lutropin-choriogonadotropic hormone receptor
UniProt Protein Name	Lutropin-choriogonadotropic hormone receptor
UniProt Gene Name	LHCGR
UniProt Synonym Gene Names	LCGR; LGR2; LHRHR; LH/CG-R; LHR; LSH-R
UniProt Entry Name	LSHR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/lhcgr-recombinant-protein-e-coli/113759>