

Follicle-stimulating hormone receptor (FSHR) Recombinant Protein | FSHR recombinant protein

Recombinant Human Follicle-stimulating hormone receptor (FSHR), partial

CATALOG # AAA18508	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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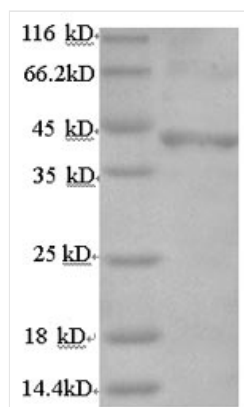
PRODUCT SYNONYMS

Follicle-stimulating hormone receptor (FSHR); Recombinant Human Follicle-stimulating hormone receptor (FSHR); partial; Folitropin receptor; FSHR 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	18-366aa; Partial
Sequence	CHHRICHCSN RVFLCQESKV TEIPSDLPRN AIELRFVLTK LRVIQKGAFS GFGDLEKIEI SQNDVLEVIE ADVFSNLPKL HEIRIEKANN LLYINPEAFQ NLPNLQYLLI SNTGIKHLPD VHKIHS LQKV LLDIQDNINI HTIERNSEFVG LSFESVILWL NKNIGQEIHN CAFNGTQLDE LNLSDNNNLE ELPNDVFHGA SGPVILDISR TRIHSLPSYG LENLKKLRAR STYNLKKLPT LEKLVALMEA SLTYP SHCCA FANWRRQISE LHPICNKSIL RQEVDMYTQA RGQRSSLAED NESSYSRGFD MTYTEFDYDL CNEVVDVTCS PKPDAFNPCE DIMGYNILR
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 FSHR recombinant protein	Receptor for follicle-stimulating hormone. The activity of this receptor is mediated by G proteins which activate adenylate cyclase.
Product Categories/Family for FSHR recombinant protein	Neuroscience

References

Cloning and sequencing of human FSH receptor cDNA. Minegishi T., Nakamura K., Takakura Y., Ibuki Y., Igarashi M. *Biochem. Biophys. Res. Commun.* 175:1125-1130(1991) Expression of recombinant human follicle-stimulating hormone receptor species-specific ligand binding, signal transduction, and identification of multiple ovarian messenger ribonucleic acid transcripts. Tilley J.L., Aihara T., Nishimori K., Jia X.-C., Billig H., Kowalski K.I., Perlas E.A., Hsueh A.J. *Endocrinology* 131:799-806(1992) The cloning of the human follicle stimulating hormone receptor and its expression in COS-7, CHO, and Y-1 cells. Kelton C.A., Cheng S.V., Nugent N.P., Schweickhardt R.L., Rosenthal J.L., Overton S.A., Wands G.D., Kuzeja J.B., Luchette C.A., Chappel S.C. *Mol. Cell. Endocrinol.* 89:141-151(1992) FSHR expression in adipose tissue. Liu X., Huang H., Sheng J. cDNA clones of human proteins involved in signal transduction sequenced by the Guthrie cDNA resource center (www.cdna.org). Kopatz S.A., Aronstam R.S., Sharma S.V. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahara K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S. *Nat. Genet.* 36:40-45(2004) 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., Wyllie 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 S., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski J.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendl M.C., Yang S.-P., Pohl C., Wallis 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) Mural R.J., Istrail S., Sutton G., Florea L., Halpern A.L., Mobarry C.M., Lippert R., Walenz B., Shatkay H., Dew I., Miller J.R., Flanigan M.J., Edwards N.J., Bolanos R., Fasulo D., Halldorsson B.V., Hannenhalli S., Turner R., Yooseph S., Lu F., Nusskern D.R., Shue B.C., Zheng X.H., Zhong F., Delcher A.L., Huson D.H., Kravitz S.A., Mouchard L., Reinert K., Remington K.A., Clark A.G., Waterman M.S., Eichler E.E., Adams M.D., Hunkapiller M.W., Myers E.W., Venter J.C. Molecular cloning of a truncated isoform of the human follicle stimulating hormone receptor. Gromoll J., Gudermann T., Nieschlag E. *Biochem. Biophys. Res. Commun.* 188:1077-1083(1992) Characterization of the 5' flanking region of the human follicle-stimulating hormone receptor gene. Gromoll J., Dankbar B., Gudermann T. *Mol. Cell. Endocrinol.* 102:93-102(1994) Localization of the human FSH receptor to chromosome 2p21 using a genomic probe comprising exon 10. Gromoll J., Ried T., Holtgreve-Grez H., Nieschlag E., Gudermann T. *J. Mol. Endocrinol.* 12:265-271(1994) Alternatively spliced variants of the follicle-stimulating hormone receptor gene in the testis of infertile men. Song G.J., Park Y.S., Lee Y.S., Lee C.C., Kang I.S. *Fertil. Steril.* 77:499-504(2002) 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) Structure of human follicle-stimulating hormone in complex with its receptor. Fan Q.R., Hendrickson W.A. *Nature* 433:269-277(2005) Mutation in the follicle-stimulating hormone receptor gene causes hereditary hypergonadotropic ovarian failure. Aittomaeki K., Lucena J.L.D., Pakarinen P., Sistonen P., Tapanainen J., Gromoll J., Kaskikari R., Sankila E.-M., Lehtvaslainen H., Engel A.R., Nieschlag E., Huhtaniemi I., de la Chapelle A. *Cell* 82:959-968(1995) A mutation in the follicle-stimulating hormone receptor occurs frequently in human ovarian sex cord tumors. Kotlar T.J., Young R.H., Albanese C., Crowley W.F. Jr., Scully R.E., Jameson J.L. *J. Clin. Endocrinol. Metab.* 82:1020-1026(1997) An activating mutation of the follicle-stimulating hormone receptor autonomously sustains spermatogenesis in a hypophysectomized man. Gromoll J., Simoni M., Nieschlag E. *J. Clin. Endocrinol. Metab.* 81:1367-1370(1996) The frequency of an inactivating point mutation (566C-->T) of the human follicle-stimulating hormone receptor gene in four populations using allele-specific hybridization and time-resolved fluorometry. Jiang M., Aittomaeki K., Nilsson C., Pakarinen P., Iitia A., Torresani T., Simonsen H., Goh V., Pettersson K., de la Chapelle A., Huhtaniemi I. *J. Clin. Endocrinol. Metab.* 83:4338-4343(1998) A novel phenotype related to partial loss of function mutations of the follicle stimulating hormone receptor. Beau I., Touraine P., Meduri G., Gougeon A., Desroches A., Matuchansky C., Milgrom E., Kuttann F., Misrahi M. *J. Clin. Invest.* 102:1352-1359(1998) New natural inactivating mutations of the follicle-

NCBI AND UNIPROT INFORMATION

NCBI GI #	31657138
NCBI GeneID	2492
NCBI Accession #	NP_000136.2
NCBI GenBank Nucleotide #	NM_000145.3
UniProt Accession #	P23945; Q05AH0; Q16225; Q4QRJ3; Q4ZФЗ2; Q53RW2; A8K947; G5CBS7; G5E967; J3KQ00
Molecular Weight	41.0 kDa
NCBI Official Full Name	follicle-stimulating hormone receptor isoform 1
NCBI Official Synonym Full Names	follicle stimulating hormone receptor
NCBI Official Symbol	FSHR
NCBI Official Synonym Symbols	LGR1; ODG1; FSHR1; FSHRO
NCBI Protein Information	follicle-stimulating hormone receptor
UniProt Protein Name	Follicle-stimulating hormone receptor
UniProt Gene Name	FSHR
UniProt Synonym Gene Names	LGR1; FSH-R
UniProt Entry Name	FSHR_HUMAN

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