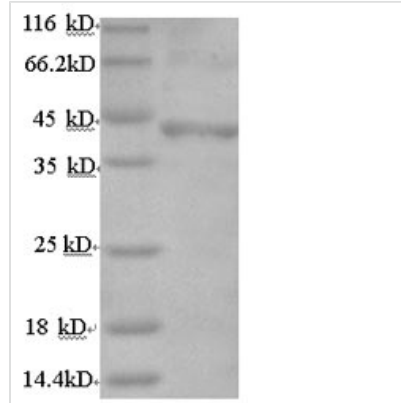


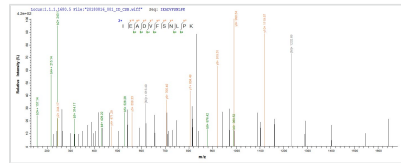


# Recombinant Human Follicle-stimulating hormone receptor (FSHR), partial

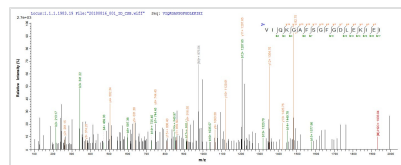
<b>Product Code</b>	CSB-EP009021HU
<b>Relevance</b>	Receptor for follicle-stimulating hormone. The activity of this receptor is mediated by G proteins which activate adenylate cyclase.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P23945
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	CHHRICHCSNRVFLCQESKVTEIPSDLPRNAIELRFVLTCLRVIQKGAFGSGFDL EKIEISQNDVLEIVIEADVFSNLPKLHEIRIEKANNLLYINPEAFQNLPLNQLYLLISN TGIKHLPDVHKKIHSLSLQKVLLDIQDNINIHTIERNNSFVGLSFESVILWLNKNGIQEIH NCAFNGTQLDELNLSNNDLEELPNDVDFHGASGPVILDISRTRIHSLPSYGLEN LKKLRARSTYNLKKLPTLEKLVALMEASLTYP SHCCAFANWRRQISELHPICNK SILRQEVDMYMTQARGQRSSLAEDNESSYRSGFDMTYTEFDYDLCNEVVDVTC SPKPDFNPNPCEDIMGYNILR
<b>Research Area</b>	Neuroscience
<b>Source</b>	E.coli
<b>Target Names</b>	FSHR
<b>Expression Region</b>	18-366AA
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	44.0 kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP009021HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) FSHR.



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## Description

Recombinant protein corresponding to aa18-366 from the human follicle-stimulating hormone receptor (FSHR) was expressed in E. coli. This recombinant FSHR protein was fused with a 6xHis-tag at the N-terminal. Its origin was validated by the LC-MS/MS Analysis. It has high purity (>90%) as measured by SDS-PAGE and a predicted molecular weight of 43.9 kDa. In addition to the production of specific antibodies, this FSHR protein may be used in neuroscience research.

FSHR is the receptor of FSH, which plays a key role in the control of female and male gonadal function. In females, FSHR is expressed in granulosa cells, where FSHR modulates Graafian follicles maturation, granulosa cell proliferation, and estrogen synthesis. In males, FSHR regulates the metabolic functions of testicular Sertoli cells, which is essential for proper spermatogenesis and germ cell survival. GSH-FSHR interaction triggers the activation of the  $G\alpha/cAMP/PKA$  signaling pathway, which activates the cAMP response element-binding protein that modulates gene transcription.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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