FSHR Protein, Human (His)

Cat. No.:	HY-P72198
Synonyms:	Follicle stimulating hormone receptor; Follicle stimulating hormone receptor isoform 1; Follicle-stimulating hormone receptor; Follitropin receptor; FSH receptor; FSH-R; Fshr; FSHR_HUMAN; FSHRO; LGR1; MGC141667; MGC141668; ODG1; ovarian dysgenesis 1
Species:	Human
Source:	E. coli
Accession:	P23945 (C18-R366)
Gene ID:	2492
Molecular Weight:	47-51 kDa

PROPERTIES

AA Sequence

C H H R I C H C S N R V F L C Q E S K V T E I P S D L P R N A I E L R F V L T K
L R V I Q K G A F S G F G D L E K I E I S Q N D V L E V I E A D V F S N L P K L
H E I R I E K A N N L L Y I N P E A F Q N L P N L Q Y L L I S N T G I K H L P D
V H K I H S L Q K V L L D I Q D N I N I H T I E R N S F V G L S F E S V I L W L
N K N G I Q E I H N C A F N G T Q L D E L N L S D N N N L E E L P N D V F H G A
S G P V I L D I S R T R I H S L P S Y G L E N L K K L R A R S T Y N L K K L P T
L E K L V A L M E A S L T Y P S H C C A F A N W R R Q I S E L H P I C N K S I L
R Q E V D Y M T Q A R G Q R S S L A E D N E S S Y S R G F D M T Y T E F D Y D L
C N E V V D V T C S P K P D A F N P C E D I M G Y N I L R

Biological Activity	Immobilized Human FSH at 2 μg/mL (100 μL/well) can bind Human FSHR. The ED_{50} for this effect is 0.265 μg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FSHR is a G protein-coupled receptor specifically designed for the recognition of follitropin, also known as follicle-stimulating hormone. This receptor activates downstream signaling pathways, including the PI3K-AKT and ERK1/ERK2

pathways, by facilitating cAMP production. As a homotrimer, FSHR binds to the heterodimeric FSH hormone, consisting of CGA and FSHB subunits, forming a functional unit for signal transduction. FSHR's interaction with ARRB2 contributes to its regulatory mechanisms, and it also engages with APPL2 independently of follicle-stimulating hormone stimulation, showcasing its versatility in diverse cellular contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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