

Thyrotropin receptor (TSHR)-VLPs Recombinant Protein | TSHR recombinant protein

Recombinant Human Thyrotropin receptor (TSHR)-VLPs (Active)

CATALOG #
AAA279397

HOST
Mammalian cell

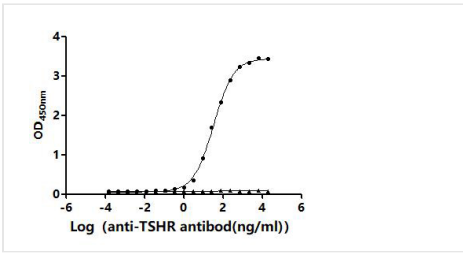
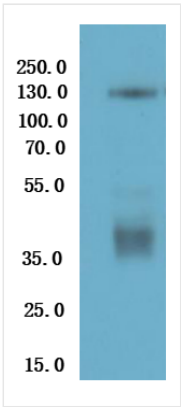
PRODUCT SYNONYMS

Thyrotropin receptor (TSHR)-VLPs; Recombinant Human Thyrotropin receptor (TSHR)-VLPs (Active); Thyrotropin receptor; Thyroid-stimulating hormone receptor (TSH-R); TSHR recombinant protein

PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	The purity information is not available for VLPs proteins.
Form/Format	Lyophilized powder. Lyophilized from a 0.2um sterile filtered PBS, 6% Trehalose, pH 7.4
Sequence	GMGCSSPPCE CHQEEDFRVT CKDIQRISL PPSTQTLKLI ETHLRTIPSH AFSNLPNISR IYVSIDVTLQ QLESHSFYNL SKVTHIEIRN TRNLTYIDPD ALKELPLLKF LGFINTGLKM FPDLTKEYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQGYAFNGT KLDVYLNKN KYLTVIDKDA FGGVYSGPSL LDVSQTSVTA LPSKGLEHLK ELIARNTWTL KKLPLSLSFL HLTRADLSYP SHCCAFKNQK KIRGILESML CNESSMQSLR QRKSVNALNS PLHQEYEENL GDSIVGYKEK SKFQDTHNNA HYYVFEEQE DEIIGFGQEL KNPQEETLQA FDSHYDYTC GDSMDVCTP KSDEFNCPED IMGYKFLRIV VWFVSLALL GNVFVLLILL TSHYKLVNPR FLMCNLAFAD FCMGMYLLLI ASVDLYTHSE YYNHAIWQT GPGCNTAGFF TVFASELSVY TLTVTILRW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LLALLPLVGI SSYAKVSICL PMDTETPLAL AYIVFVLTN IVAFVIVCCC YVKIYITVRN PQYNPGDKDT KIAKRMAVLI FTDFICMAPI SFYALSAILN KPLITVNSNK ILLVLFYPLN SCANPFLYAI FTKAFQRDVF ILLSKFGICK RQAQAYRGQR VPPKNSTDIQ VQKVTHDMRQ GLHNMEDVYE LIENSHLTPK KQGQISEEYM QTVL
Sequence Length	21-764aa; Full Length of Mature Protein
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)
Transmembrane Domain	7TM
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human TSHR at 10ug/mL can bind Anti-TSHR recombinant antibody . The EC50 is 30.81-36.12ng/mL. The VLPs is negative control.
Preparation and Storage	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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).

IMAGES



Bioactivity

Application Data
Detected by Mouse anti-6*His monoclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for TSHR recombinant protein	Receptor for the thyroid-stimulating hormone (TSH) or thyrotropin. Also acts as a receptor for the heterodimeric glycoprotein hormone (GPHA2:GPHB5) or thyrostimulin. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Plays a central role in controlling thyroid cell metabolism.
Product Categories/Family for TSHR recombinant protein	Signal Transduction
References	Tyrosine sulfation is required for agonist recognition by glycoprotein hormone receptors. Costagliola S., Panneels V., Bonomi M., Koch J., Many M.C., Smits G., Vassart G. EMBO J. 21:504-513 (2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	64085121
NCBI GeneID	7253
NCBI Accession #	NP_000360.2
NCBI GenBank Nucleotide #	NM_000369.2
UniProt Accession #	P16473; Q16503; Q8TB90; Q96GT6; Q9P1V4; Q9ULA3; Q9UPH3; A0PJU7; F5GYU5; G3V2A9
Molecular Weight	86,830 Da
NCBI Official Full Name	thyrotropin receptor isoform 1
NCBI Official Synonym Full Names	thyroid stimulating hormone receptor
NCBI Official Symbol	TSHR
NCBI Official Synonym Symbols	LGR3; CHNG1; hTSHR-I
NCBI Protein Information	thyrotropin receptor; thyrotropin receptor-I, hTSHR-I; seven transmembrane helix receptor; thyroid stimulating hormone receptor, isoform 2
UniProt Protein Name	Thyrotropin receptor
UniProt Gene Name	TSHR
UniProt Synonym Gene Names	LGR3; TSH-R
UniProt Entry Name	TSHR_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.

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Online datasheet: <https://stage.aaabiotech.com/tshr-recombinant-protein-mammalian-cell/279397>