

## TSHR Protein-VLP, Human, Recombinant (His)

## General Information

Synonyms: Thyrotropin receptor;Thyroid-stimulating hormone receptor (TSH-R);LGR3;TSHR

Protein Construction: 21-764 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P16473

Molecular Weight: 86.0 kDa (Predicted)

AA Sequence: GMGCSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTIPSHAFSNLPNISRIYVSIDVTLQQLESHSF  
YNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGLKMFDPDLTKVYSTDIFILEITDNPYMTSIPVNAFQGL  
CNETLTLKLYNNGFTSVQGYAFNGTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEH  
LKELIARNTWTLKKLPLSLSFLHLTRADLSYPHCCAFKNQKKIRGILESMLCNESSMQSLRQRKSVNALNSPL  
HQEYEENLGDIVGYKEKSKFQDTHNNAHYVVFEEQEDEIIGFGQELKNPQEETLQAFDSHYDYTCGDESD  
MVCTPKSDEFNPCEDIMGYKFLRIVVWFVSLALLGNVFLVLLILTSHYKLVNPRFLMCNLAFADFCMGYLLLI  
ASVDLYTHSEYYNHAIDWQTGPGCNTAGFFTVFASELSVYTLTITLERWYAITFAMRLDRKIRLRHACAIVMG  
GWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTNLIVAFVIVCCCYVKIYITVRNPQYNPGDKDTK  
IAKRMAVLIFTDFICMAPISFYALSAILNKPLITVSNSKILLVLFYPLNSCANPFLYAIFTKAFQRDVFISSKFGICK  
RQAQAYRGQRVPPKNSTDIQVQKVTHDMRQGLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL

## QC Testing

Biological Activity: Measured by its binding ability in a functional ELISA. Immobilized Human TSHR at 10 µg/mL can bind Anti-TSHR recombinant antibody. The EC50 is 30.81-36.12 ng/mL. The VLPs is negative control.

Purity: The purity information is not available for VLPs proteins.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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