

# Recombinant Human TSHR, His-tagged

**Cat. No.** TSHR-3448H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TSHR protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                               |
| <b>Species</b>          | Human                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-253aa                                                                                                                                                               |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                             |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TSHR thyroid stimulating hormone receptor [ Homo sapiens ]                                                                                                                                                                                                           |
| <b>Official Symbol</b> | TSHR                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | TSHR; thyroid stimulating hormone receptor; thyrotropin receptor; LGR3; TSH-R; thyrotropin receptor-I, hTSHR-I; seven transmembrane helix receptor; thyroid-stimulating hormone receptor; thyroid stimulating hormone receptor, isoform 2; CHNG1; hTSHR-I; MGC75129; |

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|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 7253                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_000369                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_000360                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P16473                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 14q24-q31                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Arf6 signaling events, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organ |
| <b>Function</b>            | protein binding; receptor activity; signal transducer activity; thyroid-stimulating hormone receptor activity; thyroid-stimulating hormone receptor activity;                                                                                                   |

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