

TSHR Protein, Human (sf9, His)

Cat. No.:	HY-P74486
Synonyms:	Thyrotropin receptor; TSH-R; LGR3; CHNG1
Species:	Human
Source:	Sf9 insect cells
Accession:	P16473-1/NP_000360.2 (G21-G413)
Gene ID:	7253
Molecular Weight:	Approximately 56.6 KDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50mM Tris, 150mM NaCl, 10% Glycerol, 1mM TCEP, pH 7.5.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	TSHR Protein, encoded by this gene, functions as a crucial membrane protein and serves as a primary regulator of thyroid cell metabolism. Operating as a receptor for thyrotropin and thyrostimulin, its activity is mediated through adenylate cyclase. Genetic defects in this gene are associated with various forms of hyperthyroidism, highlighting its pivotal role in maintaining thyroid function. Three transcript variants encoding different isoforms have been identified. Furthermore, the expression of TSHR is notably restricted to the thyroid, with a particularly high level observed (RPKM 104.1), emphasizing its specialization in thyroid tissue and its central position in the intricate regulatory mechanisms governing thyroid metabolism.
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Caution: Product has not been fully validated for medical applications. For research use only.

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