

# Product Datasheet

## Recombinant Human TSHR Protein H00007253-G01

Unit Size: 10 ug

Store at -80C. Avoid freeze-thaw cycles.

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**H00007253-G01**

## Recombinant Human TSHR Protein

Product Information	
Unit Size	10 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -80C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Buffer	0

Product Description	
Description	<p>An un-tagged recombinant protein corresponding to the amino acids 1-764 of Human TSHR full-length ORF</p> <p><b>Source:</b> <i>Wheat Germ (in vitro)</i></p> <p><b>Amino Acid Sequence:</b>  MRPADLLQLVLLLLDLPRDLGGMGCCSSPPCECHQEEDFRVTCKDIQRIPSLPPST  QTLKLIETHLR TIPSHAFSNLPNISRIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTR  NLTYIDPDALKELPLLKFLGIFNTGLKMFDPDLTKVYSTDIFFILEITDNPYMTSIPVN  AFQGLCNETLTLKLYNNGFTSVQGYAFNGTKLDAVYLNKNKYLTVIDKDAFGGV  YSGPSLLDVSQTSVTALPSKGLEHLKELIARNTWTLKKLPLSLSFLHLTRADLSY  PSHCCAFKNQKKIRGILESMLCNESSMQSLRQRKSVNALNSPLHQEYEENLGD  SIVGYKEKSKFQDTHNNAHYVFFEEQEDEIIGFGQELKNPQEETLQAFDSHYD  YTICGDESDMVCTPKSDEFNPCEDIMGYKFLRIVVWFVSLALLGNVFLILLIT  SHYKLNVPRFLMCNLAFADFCMGMYLLLIASVDLYTHSEYYNHAIWDWQTGPGC  NTAGFFTVFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHACAIMVGGWVCC  FLLALLPLVGISSYAKVSICLPMDETETPLALAYIVFVLTNLIVAFVIVCCCYVKIYITV  RNPQYNPGDKDTKIARMAVLIFTDFICMAPISFYALSAILNKPLITVSNSKILLVL  FYPLNSCANPFLYAIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQ  VQKVTHEMRQGLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL</p>
Gene ID	7253
Gene Symbol	TSHR
Species	Human
Reactivity Notes	Human
Preparation Method	in vitro wheat germ expression system with proprietary liposome technology
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunoaffinity Purification
Recommended Dilutions	Western Blot, Immunoaffinity Purification



**Application Notes**

Use in Western Blot reported in scientific literature (PMID: 23630351). In Vitro Wheat Germ System + Liposome Technology offers significant advantages over commonly used protein expression platforms:

Higher Yield  
Greater Stability  
High Expression Success Rate  
Native Protein Conformation

This protein has not yet been tested for use in functional studies and/or compound screening.

All experiments requiring biological activity of the protein will not be backed by the Novus Guarantee or be eligible for the Innovator's Reward™ and must be undertaken at the customer's own risk.

**Publications**

Kumata K, Nagata K, Matsushita M et al. Thyrotropin Receptor Antibody (TRAb)-IgM Levels Are Markedly Higher Than TRAb-IgG Levels in Graves' Disease Patients and Controls, and TRAb-IgM Production Is Related to Epstein-Barr Virus Reactivation. *Viral Immunol* 2016-08-16 [PMID: 27529807]

Nagata K, Nakayama Y, Higaki K et al. Reactivation of persistent Epstein-Barr virus (EBV) causes secretion of thyrotropin receptor antibodies (TRAbs) in EBV-infected B lymphocytes with TRAbs on their surface. *Autoimmunity* 2015-03-11 [PMID: 25759125]

Hargreaves CE, Grasso M, Hampe CS et al. *Yersinia enterocolitica* Provides the Link between Thyroid-Stimulating Antibodies and Their Germline Counterparts in Graves' Disease. *J Immunol* 2013-06-01 [PMID: 23630351] (WB)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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