Datasheet for ABIN7597440

TSH receptor Protein (AA 99-330) (Fc Tag)

Go to Product page

Overview

Quantity:	10 µg
Target:	TSH receptor (TSHR)
Protein Characteristics:	AA 99-330
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSH receptor protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human TSHR(23-410) Protein with N-terminal human Fc tag
Sequence:	hFc(Glu99-Ala330) TSHR(Gly23-Asp410)
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	TSH receptor (TSHR)
Alternative Name:	TSHR (TSHR Products)
Background:	LGR3, CHNG1, hTSHR-I The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of

Target Details

	hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
Molecular Weight:	predicted molecular mass of 70.3 kDa after removal of the signal peptide. The apparent molecular mass of hFc-TSHR(23-410) is 70-130 kDa due to glycosylation.
UniProt:	P16473
Pathways:	Thyroid Hormone Synthesis

Application Details

Application Notes:	Extracellular Domain Proteins (ECD) can be used as: • Immunogens for antibody drug development • Reagents used for CAR-T positive cell monitoring • Reagents for antibody screening and functional testing • Reagents for antibody affinity measurement
Comment:	The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months