

Datasheet for ABIN3134134

TSH receptor Protein (AA 22-413) (His tag)

5 Images

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Overview

Quantity:	1 mg
Target:	TSH receptor (TSHR)
Protein Characteristics:	AA 22-413
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSH receptor protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	KECASPPCECHQEDDFRVTCKELHRIPSLPPSTQTLKLIETHLKTIPSLAFSSLPNISRIYLSIDATLQRLEPHSFYNLSKMTHIEIRN Sequence including C-terminal His-tag.
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Tshr Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance is directly proportional to its concentration.</p> <p>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool for this purpose.</p>
Purification:	The protein is purified from the cleared cell lysate using EDTA and DTT resistant His-tag capture materials. Eluate fraction is then dialyzed into storage buffer.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin	Protein is endotoxin free.

Product Details

Level:

Grade: Crystallography grade

Target Details

Target:	TSH receptor (TSHR)
Alternative Name:	Tshr (TSHR Products)
Background:	Receptor for thyrothropin. Plays a central role in controlling thyroid cell metabolism. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Also acts as a receptor for thyrostimulin (GPA2+GPB5).
Molecular Weight:	45.3 kDa Including tag.
UniProt:	P47750
Pathways:	Thyroid Hormone Synthesis

Application Details

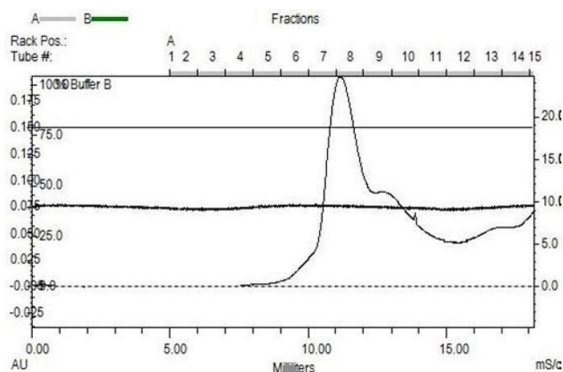
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

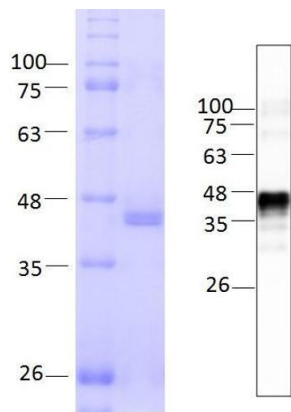
Format:	Liquid
Buffer:	In solution (20 mM Hepes, pH7.4; 100 mM NaCl)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Thyroid Stimulating Hormone Receptor (TSHR) (AA 22-413), gel filtration Superdex 200 10/30 GL, fraction 7,8



Thyroid Stimulating Hormone Receptor (TSHR) (AA 22-413), His Tag, fraction 7,8

Image 2.

Image 3.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3134134.