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Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



TP Receptor (mouse) Blocking Peptide

Item No. 10004110

Overview and Properties

Contents:	This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide.
Amino Acids:	275-289 (VMSFSGQLLRATEHQ)
Synonyms:	Thromboxane A ₂ Receptor, TXA ₂ Receptor
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Procedures

This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The TP Receptor (mouse) blocking peptide (amino acids 275-289) can be used in conjunction with Cayman's TP Receptor (mouse) Polyclonal Antibody (Item No. 101882) to block protein-antibody complex formation during immunochemical analysis of the TP receptor.

To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the TP Receptor (mouse) Polyclonal Antibody (Item No. 101882) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 20 µl of peptide.*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

Description

Thromboxane A₂ (TXA₂) is a potent vasoconstrictor and activator of platelet aggregation. The short half-life of TXA₂ ensures local action whether generated by vascular endothelial cells or by platelets and confers physiologically beneficial or deleterious effects under inflammatory situations.^{1,2} TXA₂ elicits its effects via a 7-transmembrane domain G-protein coupled receptor, the TP receptor.³ This receptor can also bind prostaglandin H₂ and isoprostanes and was first cloned from human placenta and the platelet-like MEG-01 cell line.^{4,5} The TP receptor is highly expressed in platelets and is relatively less abundant in tissues such as lung, kidney, brain, spleen, thymus, monocytes, uterus, and placenta.⁶⁻⁹ The apparent molecular weight for TP receptors has been reported from 37 kDa to 70 kDa, depending on different degrees of glycosylation,⁹⁻¹¹ however Cayman's antibody consistently detects the TP receptor at 55 and 64 kDa in platelet, kidney, and COS-7 cell samples.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

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CAYMAN CHEMICAL
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[734] 971-3335
FAX: [734] 971-3640
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