



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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



## GPR4 Blocking Peptide Blocking Peptide

### BACKGROUND

Sphingosylphosphorylcholine (SPC) and lysophosphatidylcholine (LPC) are bioactive lipid molecules involved in numerous biological processes. GPR4 shares sequence homology with OGR1 (51%), the highest of all GPCR's. GPR4 has been identified as another high affinity receptor for SPC and low affinity receptor for LPC. SPC and LPC stimulate kinase activation and DNA synthesis stimulated, both of which are pertussis toxin-sensitive, suggesting Gi-heterotrimeric G protein involvement. The GPR4 subfamily of GPCR's consists of four receptors that share significant sequence homology; OGR1, TDAG8 and G2A. G2A has been shown to be a potent transforming oncogene. GPR4 also malignantly transforms NIH3T3 cells and TDAG8 malignantly transforms the normal mammary epithelial cell line NMuMG. Overexpression of GPR4 or TDGA8 in HEK293 cells leads to transcriptional activation independent of exogenously added ligand. TDAG8 and GPR4 are also overexpressed in a range of human cancer tissues suggestive of a driving role in maintaining tumor formation.

### ORDERING INFORMATION

**CATALOG NUMBER**

X1646B

**SIZE**

50  $\mu$ g

**CUSTOMER STORAGE**

Product should be stored at -20°C.  
Aliquot to avoid freeze/thaw cycles

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STABILITY**

Products are stable for one year from purchase when stored properly

### COMMENTS

For use with GPR4 polyclonal antibody (Cat. No. X1638P).

### INSTRUCTIONS

Incubate antibody neat with at least a 50 fold stoichiometric excess of blocking peptide at 37 deg C for 20 minutes (molecular weights of peptide and antibody are ~2.5 kDa and ~160 kDa, respectively). Antibody can then be diluted to a concentration suitable for Western blot.

Example: 10  $\mu$ l or 10  $\mu$ g of Exalpha's rabbit anti-GPR4 antibody (Cat. No. X1638P) is added to 10  $\mu$ g of blocking peptide for a total volume of 20  $\mu$ l. The mixture is allowed to incubate for 20 minutes at 37 deg C prior to dilution in suitable buffer (for Western blot, etc.).