



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

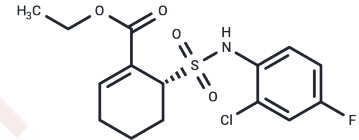
www.szabo-scandic.com

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

Resatorvid

Chemical Properties

CAS No. :	243984-11-4
Formula:	C ₁₅ H ₁₇ ClFNO ₄ S
Molecular Weight:	361.82
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Resatorvid (TAK-242) is a selective inhibitor of Toll-like receptor 4 (TLR4). Resatorvid binds directly to Cys747 and prevents TLR4 from binding to TIRAP, thereby blocking downstream signaling. Resatorvid has antitumor activity, anti-inflammatory activity, and neuroprotective effects.
Targets(IC50)	TNF,TLR,Autophagy,Interleukin
In vitro	<p>METHODS: Breast cancer cell lines MCF7, SKBR3, MDA-MB-231 and BT-474 were treated with Resatorvid (10-150 μM) for 48 h. Cell viability was measured using MTT Assay.</p> <p>RESULTS: Resatorvid dose-dependently inhibited the viability of breast cancer cell lines. [1]</p> <p>METHODS: Macrophage RAW264.7 was treated with Resatorvid (1-100 nM) and LPS (5 ng/mL), IFN-γ (1 U/mL) for 4 h. Gene expression levels were measured by RT-qPCR.</p> <p>RESULTS: Resatorvid inhibited LPS and IFN-γ induced mRNA expression of IL-6 and TNF-α in RAW264.7 cells. [2]</p>
In vivo	<p>METHODS: To test the effects on cancer-comorbid depression (BCCD), Resatorvid (3 mg/kg) was administered intraperitoneally to BALB/c mice in the BCCD model once daily for three weeks.</p> <p>RESULTS: Resatorvid attenuated the symptoms of BCCD mice in vivo. Resatorvid inactivated inflammatory factors and TLR4/NF-κB/NLRP3 signaling pathway in vivo. [3]</p> <p>METHODS: To investigate the effects on temporomandibular joint osteoarthritis (TMJOA), Resatorvid (10 mg/kg) was injected intraperitoneally twice weekly for four weeks into a CFA-induced TMJOA model in C57BL/6 mice.</p> <p>RESULTS: Prophylactic treatment with Resatorvid attenuated TMJOA pathology by inhibiting chondrocyte focal prolapse and degeneration, and ROS-induced macrophage inflammation via TLR4/MyD88/NF-κB/NLRP3. [4]</p>
Cell Research	Cell Line: RAW264.7 cells. Concentration: 1 nM, 10 nM, 100 nM. Incubation Time: 4 hours [1]
Animal Research	Animal Model: 30 ApoE knockout and 30 wild-type mice on a C57BL/6 background (female, 10 weeks old). Dosage: 0.3 mg/kg. Administration: i.p.; twice a week; for 4 weeks [3]

Solubility Information

A DRUG SCREENING EXPERT

Solubility	H2O: Insoluble, DMSO: 100 mg/mL (276.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7638 mL	13.819 mL	27.6381 mL
5 mM	0.5528 mL	2.7638 mL	5.5276 mL
10 mM	0.2764 mL	1.3819 mL	2.7638 mL
50 mM	0.0553 mL	0.2764 mL	0.5528 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zandi Z, et al. The anticancer effect of the TLR4 inhibition using TAK-242 (resatorvid) either as a single agent or in combination with chemotherapy: A novel therapeutic potential for breast cancer. J Cell Biochem. 2020 Feb;121(2):

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481