



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

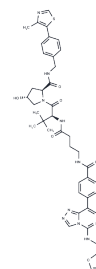
www.szabo-scandic.com

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

U0126

Chemical Properties

CAS No. :	109511-58-2
Formula:	C ₁₈ H ₁₆ N ₆ S ₂
Molecular Weight:	380.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	U0126, an effective and selective non-competitive inhibitor of MAP kinase, inhibits MEK-1 and MEK-2 with IC ₅₀ values of 0.07 and 0.06 μ M respectively. U0126 inhibits autophagy and mitophagy.
Targets(IC ₅₀)	Mitophagy,MEK,Autophagy
In vitro	Rat hepatocarcinoma cells (FAO) stimulated by fetal calf serum (FCS) exhibits a significant proportion in S phase (32.62%) whereas U0126 strongly decreases the proportion of cells in S phase (9.92%) and increases the proportion of cells in G ₀ -G ₁ phase and to a lesser extent in G ₂ /M[1]. U0126 efficiently reduces progeny virus titers of all tested strains in A549 cells. While nM concentrations of U0126 are efficient to reduce H1N1v and H5N1 (MB1), μ M concentrations of U0126 are required to reduce the virus titer of H5N1 (GSB) and H7N7. The EC ₅₀ values for U0126-EtOH against H1N1v are 1.2 μ M in A549 cells and 74.7 μ M in MDCKII cells[2].
In vivo	In mice, U0126-EtOH (U0126; i.p., 10.5 mg/kg) inhibits tumor growth with a 60-70% reduction 9 days after injection and thereafter[1]. After treatment with U0126-EtOH (U0126; i.p., 30 mg/kg), the vasoconstriction to S6c is markedly reduced in rats[3].

Solubility Information

Solubility	DMSO: Soluble, H ₂ O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6282 mL	13.1409 mL	26.2819 mL
5 mM	0.5256 mL	2.6282 mL	5.2564 mL
10 mM	0.2628 mL	1.3141 mL	2.6282 mL
50 mM	0.0526 mL	0.2628 mL	0.5256 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

Li W Y, Shi T S, Huang J, et al. Activation of the mTORC1 signaling cascade in the hippocampus and medial prefrontal cortex is required for the antidepressant actions of vortioxetine in mice. International Journal of

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