



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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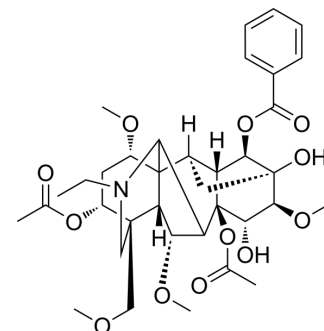
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## Flaconitine

Cat. No.:	HY-N0276
CAS No.:	77181-26-1
Molecular Formula:	C <sub>36</sub> H <sub>49</sub> NO <sub>12</sub>
Molecular Weight:	687.77
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (36.35 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.4540 mL	7.2699 mL	14.5397 mL
				5 mM	0.2908 mL	1.4540 mL	2.9079 mL
				10 mM	0.1454 mL	0.7270 mL	1.4540 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.63 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.63 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.63 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Flaconitine is considered to be a NF-κB inhibitor.
IC <sub>50</sub> & Target	NF-κB
In Vitro	Flaconitine has been demonstrated to suppress TNF-α induced NF-κB activation and is considered as a diester-diterpenoid-type NF-κB inhibitor <sup>[1]</sup> Flaconitine (3-Acetylaconitine) is evaluated for its cytotoxic activity against human leukemic P388 cells using the SRB (Sulforhodamine B) method, with Etoposide as the positive control. The cell growth inhibitory potency of Flaconitine is expressed as IC <sub>50</sub> (μM) Value. Flaconitine exhibits moderately cytotoxic activity with an IC <sub>50</sub> of 18.6 μM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## PROTOCOL

### Cell Assay [2]

The assay is performed following a standard published procedure using microtiter plate format and sulforhodamine B standing at the end point. The leukemic cells (P388) are exposed to Flaconitine (3-Acetylaconitine) for three days. Cells are grown and maintained in an incubator set at 37°C, 5% CO<sub>2</sub> and 95% humidity. RPMI-1640 media supplemented with 10% fetal calf serum (FCS) and 0.5% trypsin are used to culture P388 cells<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Dong L, et al. Identification of nuclear factor- $\kappa$ B inhibitors and  $\beta$ 2 adrenergic receptor agonists in Chinese medicinal preparation Fuzilizhong pills using UPLC with quadrupole time-of-flight MS. *Phytochem Anal.* 2014 Mar-Apr;25(2):113-21.

[2]. He YQ, et al. Diterpenoid alkaloids from a Tibetan medicinal plant *Aconitum richardsonianum* var. *pseudosessiliflorum* and their cytotoxic activity. *J Pharm Anal.* 2011 Feb;1(1):57-59.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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