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Lieferung & Zahlungsart

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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

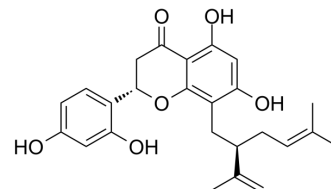
mail@szabo-scandic.com

www.szabo-scandic.com

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

Sophoraflavanone G

Cat. No.:	HY-N1231
CAS No.:	97938-30-2
Molecular Formula:	C ₂₅ H ₂₈ O ₆
Molecular Weight:	424
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (589.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.3585 mL	11.7925 mL	23.5849 mL	
		5 mM	0.4717 mL	2.3585 mL	4.7170 mL	
		10 mM	0.2358 mL	1.1792 mL	2.3585 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.91 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.91 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Sophoraflavanone G (Kushenol F) is isolated from <i>Sophora flavescens</i> and shows anti-tumor and anti-inflammatory properties. Sophoraflavanone G (Kushenol F) induces MDA-MB-231 and HL-60 cells apoptosis through suppression of MAPK-related pathways ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 29.7 μM (MDA-MB-231 cell) ^[1]
In Vitro	Sophoraflavanone G (0 -100 μM; 24 hours) decreases the viability of the HL-60 cells in a dose-dependent manner ^[1] . Sophoraflavanone G (0 -100 μM; 24 hours) induces HL-60 cell apoptosis, activated caspase-3 and caspase-9, and downregulated Bcl-2 and Bcl-xL. It also upregulates Bax and released cytochrome c from the mitochondria into the cytoplasm, enabling apoptosis via the mitochondrially-mediated "intrinsic" pathway ^[1] Sophoraflavanone G (0 -40 μM; 24 hours) inhibits MDA-MB-231 cell viability in a concentration-dependent manner, with an IC

$_{50}$ value of $29.7 \pm 5.2 \mu\text{M}$ ^[2]<.br>

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

REFERENCES

- [1]. Li ZY, et al. Sophoraflavanone G Induces Apoptosis in Human Leukemia Cells and Blocks MAPK Activation. *Am J Chin Med*. 2016;44(1):165-76.
- [2]. Huang WC, et al. Sophoraflavanone G from *Sophora flavescens* induces apoptosis in triple-negative breast cancer cells. *Phytomedicine*. 2019 Aug;61:152852.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA