



# SZABO SCANDIC

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Laborgeräte & Service

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### Zuschläge

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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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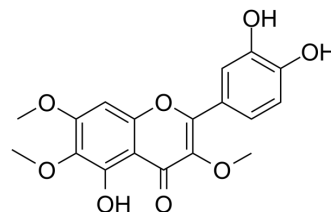
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## Chryso splenol D

<b>Cat. No.:</b>	HY-N6007
<b>CAS No.:</b>	14965-20-9
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>16</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	360.31
<b>Target:</b>	Apoptosis
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (138.77 mM; Need ultrasonic)				
		<b>Solvent</b>	<b>Mass</b>		
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
	<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.7754 mL	13.8769 mL	27.7539 mL
		<b>5 mM</b>	0.5551 mL	2.7754 mL	5.5508 mL
		<b>10 mM</b>	0.2775 mL	1.3877 mL	2.7754 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Chryso splenol D is a methoxy flavonoid that induces ERK1/2-mediated apoptosis in triple negative human breast cancer cells. Chryso splenol D also exhibits anti-inflammatory and moderate antitrypanosomal activities <sup>[1][2][3][4]</sup> .
<b>In Vitro</b>	Chryso splenol D inhibits the cell viability of CaCo2 cells, with IC <sub>50</sub> of 63.48 μM <sup>[1]</sup> . Chryso splenol D (1-100 μM; 48 h) selectively inhibits the viability of the TNBC cell lines, MDA-MB-231, CAL-51, CAL-148, as well as MCF7, A549, MIA PaCa-2, and PC-3 <sup>[2]</sup> . Chryso splenol D (1-10 μM; 48 h) induces cell cycle aberrations with accumulation of cells in the S-phase and partially in the G <sub>2</sub> /M-phase of the cell cycle <sup>[2]</sup> . Chryso splenol D (1-10 μM; 48 h) induce apoptosis in breast cancer cells <sup>[2]</sup> . Chryso splenol D shows moderate antitrypanosomal activity, with IC <sub>50</sub> of 47.27 μM for T.b. brucei <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**In Vivo**

Chryso splenol D (30  $\mu$ M; 3 d) inhibits MDA-MB-231 tumor growth on chick chorioallantoic membranes<sup>[2]</sup>.

Chryso splenol D (0.07-0.28 mmol/kg) protects against LPS-induced systemic inflammatory response syndrome (SIRS) in mice<sup>[4]</sup>.

Chryso splenol D (1-1.5  $\mu$ mol/cm<sup>2</sup>) inhibits croton oil-induced ear edema in mice<sup>[4]</sup>.

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

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**REFERENCES**

- [1]. Habib ES, et, al. Anti-inflammatory effect of methoxyflavonoids from *Chiliadenus montanus* (*Jasonia Montana*) growing in Egypt. *Nat Prod Res.* 2020 Aug 4;1-5.
- [2]. Lang SJ, et, al. Chryso splenol d, a Flavonol from *Artemisia annua*, Induces ERK1/2-Mediated Apoptosis in Triple Negative Human Breast Cancer Cells. *Int J Mol Sci.* 2020 Jun 8;21(11):4090.
- [3]. Skaf J, et, al. Improving anti-trypanosomal activity of alkamides isolated from *Achillea fragrantissima*. *Fitoterapia.* 2018 Mar;125:191-198.
- [4]. Li YJ, et, al. Flavonoids casticin and chryso splenol D from *Artemisia annua* L. inhibit inflammation in vitro and in vivo. *Toxicol Appl Pharmacol.* 2015 Aug 1;286(3):151-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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