



# 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

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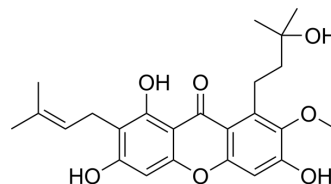
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## Garcinone D

Cat. No.:	HY-N6953
CAS No.:	107390-08-9
Molecular Formula:	C <sub>24</sub> H <sub>28</sub> O <sub>7</sub>
Molecular Weight:	428.47
Target:	STAT; Keap1-Nrf2; Reactive Oxygen Species
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; NF-κB; Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (116.69 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.3339 mL	11.6694 mL	23.3389 mL
		5 mM	0.4668 mL	2.3339 mL	4.6678 mL
	10 mM	0.2334 mL	1.1669 mL	2.3339 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 (5.83 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.83 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Garcinone D, a natural xanthone from mangosteen, promotes the proliferation of C17.2 neural stem cell. Garcinone D increases the protein levels of phosphorylated signal transducer and activator of transcription 3 (p-STAT3), Cyclin D1 and nuclear factor erythroid 2-related factor (Nrf2), heme oxygenase-1 (HO-1) in concentration- and time- dependent manners <sup>[1]</sup> .
IC <sub>50</sub> & Target	p-STAT3

### CUSTOMER VALIDATION

- 
- Phytomedicine. 8 August 2022, 154385.
  - Food Anal Methods. 2023 May 9.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Yang X, et al. Garcinone D, a natural xanthone promotes C17.2 neural stem cell proliferation: Possible involvement of STAT3/Cyclin D1 pathway and Nrf2/HO-1 pathway. Neurosci Lett. 2016 Jul 28;626:6-12.

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

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