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Produktinformation



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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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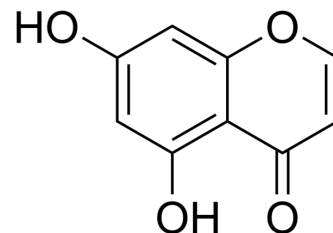
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5,7-Dihydroxychromone

Cat. No.:	HY-N1970
CAS No.:	31721-94-5
Molecular Formula:	C ₉ H ₆ O ₄
Molecular Weight:	178.14
Target:	Keap1-Nrf2; Arenavirus; Caspase; PARP
Pathway:	NF-κB; Anti-infection; Apoptosis; Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (561.36 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	5.6136 mL	28.0678 mL	56.1356 mL
		5 mM	1.1227 mL	5.6136 mL	11.2271 mL
		10 mM	0.5614 mL	2.8068 mL	5.6136 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 (14.03 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	5,7-Dihydroxychromone, the extract of <i>Cudrania tricuspidata</i> , activates Nrf2/ARE signal and exerts neuroprotective effects against 6-hydroxydopamine (6-OHDA)-induced oxidative stress and apoptosis. 5,7-Dihydroxychromone inhibits the expression of activated caspase-3 and caspase-9 and cleaved PARP in 6-OHDA-induced SH-SY5Y cells ^[1] .			
IC ₅₀ & Target	Nrf2	Caspase-3	Caspase-9	PARP

CUSTOMER VALIDATION

- Planta Medica International Open. 2022; 9(01): e108-e115.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kim DW, et al. Neuroprotection against 6-OHDA-induced oxidative stress and apoptosis in SH-SY5Y cells by 5,7-Dihydroxychromone: Activation of the Nrf2/ARE pathway. Life Sci. 2015 Jun 1;130:25-30.

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

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