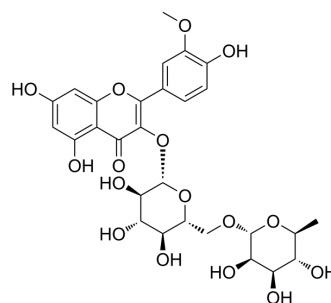


## Narcissin

Cat. No.:	HY-N0649
CAS No.:	604-80-8
Molecular Formula:	C <sub>28</sub> H <sub>32</sub> O <sub>16</sub>
Molecular Weight:	624.54
Target:	EBV
Pathway:	Anti-infection
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 (160.12 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.6012 mL	8.0059 mL	16.0118 mL
				5 mM	0.3202 mL	1.6012 mL	3.2024 mL
				10 mM	0.1601 mL	0.8006 mL	1.6012 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: ≥ 2.08 mg/mL (3.33 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Narcissin (Narcissoside), a flavonol glycoside, exhibits evident scavenging activity against both authentic ONOO <sup>-</sup> and SIN-1-derived ONOO <sup>-</sup> with IC <sub>50</sub> s of 3.5 and 9.6 μM, respectively <sup>[1]</sup> .	
In Vitro	Narcissin (0-1 μM, 24 h) inhibits the 6-OHDA-induced increase in reactive oxygen species and apoptosis in SH-SY5Y cells, and increases GSH <sup>[2]</sup> .	
	Narcissin (2 mM, 3 days) reduces α-synuclein accumulation in transgenic NL5901 nematodes <sup>[2]</sup> . Narcissin inhibits activation of Epstein-Barr virus early antigen (EBV-EA) induced by TPA in Raji cells <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[2]</sup>	
Cell Line:	6-OHDA-exposed SH-SY5Y cells	

	Concentration:	0-1 $\mu$ M
	Incubation Time:	24 h
	Result:	Increased the expression of nuclear Nrf2. Inhibits the activation of JNK and p38.
<b>In Vivo</b>	Narcissin (85 nmol, applied to the skin) inhibits TPA (1.7 nmol, applied to the skin)-induced tumor promotion in mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## CUSTOMER VALIDATION

- Aging (Albany NY). 2021 Nov 25;13(22):24753-24767.

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## REFERENCES

- [1]. Fu RH, et al. Neuroprotective Capability of Narcissoside in 6-OHDA-Exposed Parkinson's Disease Models through Enhancing the MiR200a/Nrf-2/GSH Axis and Mediating MAPK/Akt Associated Signaling Pathway. *Antioxidants (Basel)*. 2022 Oct 23;11(11):2089.
- [2]. Ito H, et al. Anti-tumor promoting activity of polyphenols from *Cowania mexicana* and *Coleogyne ramosissima*. *Cancer Lett*. 1999 Aug 23;143(1):5-13
- [3]. Su BN, et al. Chemical constituents of the fruits of *Morinda citrifolia* (Noni) and their antioxidant activity. *J Nat Prod*. 2005 Apr;68(4):592-5.

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

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