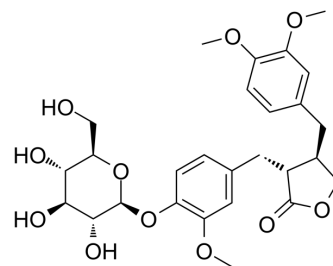


Arctiin

Cat. No.:	HY-N0034
CAS No.:	20362-31-6
Molecular Formula:	C ₂₇ H ₃₄ O ₁₁
Molecular Weight:	534.55
Target:	NF-κB
Pathway:	NF-κB
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 2 years</div> <div>-20°C 1 year</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (467.68 mM; Need ultrasonic)
H₂O : 10 mg/mL (18.71 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.8707 mL	9.3537 mL	18.7073 mL
	5 mM		0.3741 mL	1.8707 mL	3.7415 mL
	10 mM		0.1871 mL	0.9354 mL	1.8707 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 10 mg/mL (18.71 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (3.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Arctiin (NSC 315527) is a plant lignan extracted from burdock seeds and has anti-cancer activity.

CUSTOMER VALIDATION

- Antioxidants (Basel). 2022, 11(12), 2347
- Planta Med. 2021 Feb 5.
- Prince of Songkla University. 2023 Dec.

See more customer validations on www.MedChemExpress.com

REFERENCES

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- [3]. Zeng Y, et al. Lack of significant modifying effect of arctiin on prostate carcinogenesis in probasin/SV40 T antigen transgenic rats. Cancer Lett. 2005 May 26;222(2):145-51.
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Caution: Product has not been fully validated for medical applications. For research use only.

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