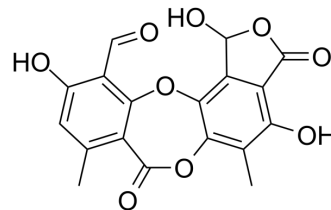


Norstictic acid

Cat. No.:	HY-N10457
CAS No.:	571-67-5
Molecular Formula:	C ₁₈ H ₁₂ O ₉
Molecular Weight:	372.28
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (26.86 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6862 mL	13.4308 mL	26.8615 mL
	5 mM	0.5372 mL	2.6862 mL	5.3723 mL
	10 mM	0.2686 mL	1.3431 mL	2.6862 mL

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

BIOLOGICAL ACTIVITY

Description

Norstictic acid is a potent and selective allosteric transcriptional regulator. Norstictic acid shows anticancer activity. Norstictic acid shows antioxidant activity and antimicrobial activity^{[1][2][3][4]}.

In Vitro

Norstictic acid significantly suppresses the TNBC MDA-MB-231 cell proliferation, migration, invasion with low toxicity^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Garlick JM, et al. Norstictic Acid Is a Selective Allosteric Transcriptional Regulator. *J Am Chem Soc.* 2021 Jun 30;143(25):9297-9302.
- [2]. Ebrahim HY, et al. Norstictic Acid Inhibits Breast Cancer Cell Proliferation, Migration, Invasion, and In Vivo Invasive Growth Through Targeting C-Met. *Phytother Res.* 2016 Apr;30(4):557-66.
- [3]. Ranković B, et al. Biological activities of *Toninia candida* and *Usnea barbata* together with their norstictic acid and usnic acid constituents. *Int J Mol Sci.* 2012 Nov 12;13(11):14707-22.

[4]. Tay T, et al. Evaluation of the antimicrobial activity of the acetone extract of the lichen *Ramalina farinacea* and its (+)-usnic acid, norstictic acid, and protocetraric acid constituents. *Z Naturforsch C J Biosci.* 2004 May-Jun;59(5-6):384-8.

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

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