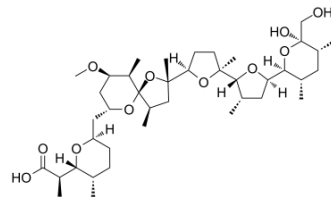


Nigericin

Cat. No.:	HY-127019
CAS No.:	28380-24-7
Molecular Formula:	C ₄₀ H ₆₈ O ₁₁
Molecular Weight:	724.96
Target:	Sodium Channel; NOD-like Receptor (NLR)
Pathway:	Membrane Transporter/Ion Channel; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description

Nigericin is an **antibiotic** derived from *Streptomyces hygroscopicus* with anti-cancer, antimalarial, and antiviral potency, **NLRP3** activator. Nigericin is a **K⁺/H⁺ ionophore** that promoting K⁺/H⁺ exchange across mitochondrial membranes^[1]. Nigericin triggers eryptosis, an effect paralleled by ROS formation and in part due to induction of oxidative stress, increase in cytosolic Ca²⁺ activity and cellular K⁺ loss. Nigericin triggers **apoptosis**^[2].

IC₅₀ & Target

K⁺/H⁺ ionophore^[1]

CUSTOMER VALIDATION

- Cell Rep. 2019 May.
- Appl Microbiol Biotechnol. 2017 May;101(10):4201-4213.
- Sensor Actuat B-Chem. 2019 Jul.
- Oncotarget. 2018 Jan 13;9(13):10868-10879.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Zotova L, et al. Novel components of an active mitochondrial K(+)/H(+) exchange. J Biol Chem. 2010 May 7;285(19):14399-414.
- [2]. Bissinger R, et al. Triggering of Suicidal Erythrocyte Death by the Antibiotic Ionophore Nigericin. Basic Clin Pharmacol Toxicol. 2016 May;118(5):381-9.

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

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