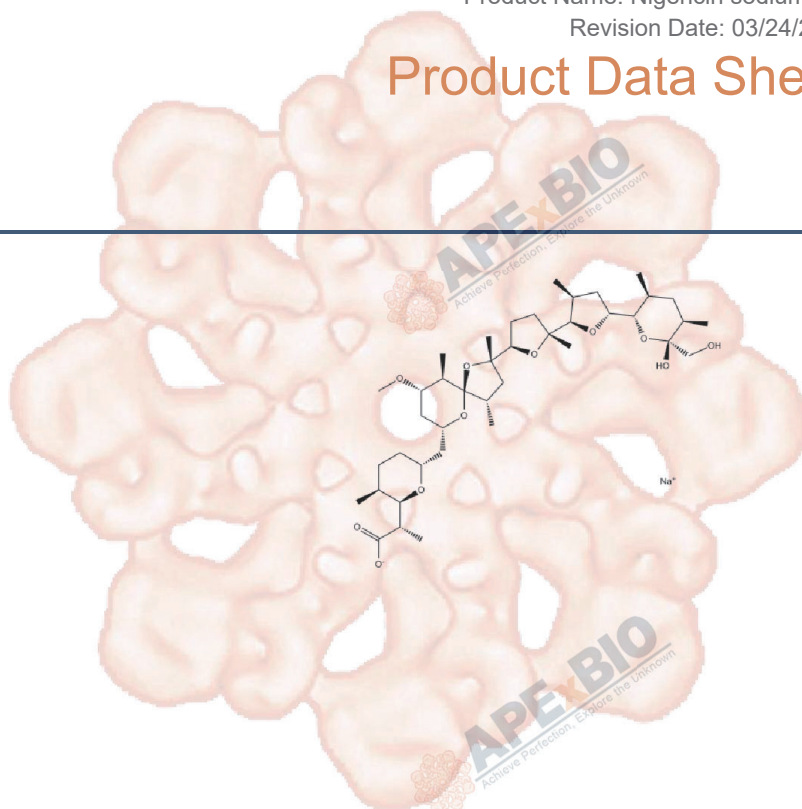


# Product Data Sheet

## Nigericin sodium salt

**Cat. No.:** B7644  
**CAS No.:** 28643-80-3  
**Formula:** C40H67NaO11  
**M.Wt:** 746.94  
**Synonyms:**  
**Target:**  
**Pathway:**  
**Storage:** Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; insoluble in DMSO; ≥74.7 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.3388 mL	6.6940 mL	13.3880 mL
	<b>5 mM</b>	0.2678 mL	1.3388 mL	2.6776 mL
	<b>10 mM</b>	0.1339 mL	0.6694 mL	1.3388 mL

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

### Biological Activity

Shortsummary

ionophore that exchanges K<sup>+</sup> for H<sup>+</sup> across biological membranes

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Preparation method:

Solubility <3.7mg/ml in DMSO. If a higher concentration of solution, the general steps are as follows: please send a test tube heating at 37 ° C for 10 minutes and/or place it in the ultrasonic bath in shock for a period of time. Concentrate on - 20 ° C can be placed for months.

Reacting conditions:

2 μM; 2minutes

In Vivo

#### Animal experiment

Applications:

## Product Citations

1. Antonopoulos, Christina, et al. "Caspase-8 as an Effector and Regulator of NLRP3 Inflammasome Signaling." *Journal of Biological Chemistry* (2015): jbc-M115. PMID:26100631

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Kitagawa S, Awai M, Kametani F. Relationship of the effects of nigericin on the aggregation and cytoplasmic pH of bovine platelets in the presence of different cations. *Biochim Biophys Acta*, 1987, 930(1): 48-54.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APExBIO Technology**

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