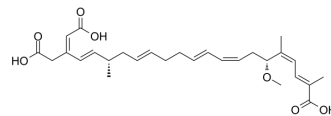


## Bongkreikic acid

Cat. No.:	HY-136406		
CAS No.:	11076-19-0		
Molecular Formula:	C <sub>28</sub> H <sub>38</sub> O <sub>7</sub>		
Molecular Weight:	486.6		
Target:	ATP Synthase		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Bongkreikic acid is a mitochondrial toxin secreted by the bacteria <i>Pseudomonas cocovenenans</i> <sup>[1]</sup> . Bongkreikic acid specific ligand for mitochondrial adenine nucleotide translocase (ANT) rather than the electron transport chain. Bongkreikic acid has to cross the mitochondrial inner membrane to produce its inhibitory effect on ADP/ATP transport <sup>[2]</sup> .
<b>In Vitro</b>	Bongkreikic acid (0-50 μM; 48 hours) stimulated formazan formation in MDA-MB-231, MCF-7 and LTED cells with EC <sub>50</sub> of 34.14 μM, >50 μM and 2.58 μM, respectively. Bongkreikic acid (0.1-25 μM; 48 hours) decreases the living cell numbers in LTED cells and parent MCF-7 cells in a dose-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Mehruba Anwar, et al. Bongkreikic Acid-a Review of a Lesser-Known Mitochondrial Toxin. *J Med Toxicol.* 2017 Jun;13(2):173-179.
- [2]. C Dahout-Gonzalez, et al. Molecular, functional, and pathological aspects of the mitochondrial ADP/ATP carrier. *Physiology (Bethesda)*
- [3]. Shuso Takeda, et al. Bongkreikic Acid as a Warburg Effect Modulator in Long-term Estradiol-deprived MCF-7 Breast Cancer Cells. *Anticancer Res*

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

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