

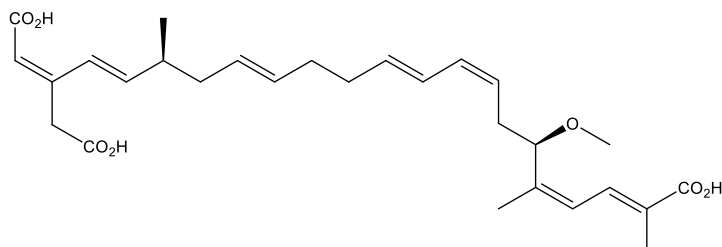
**Catalog # 10-2751**

**Bongkreikic acid**

11076-19-0

3-Carboxymethyl-17-methoxy-6,18,21-trimethyldocosa-2,4,8,12,18,20-heptaenedioic acid

Lot # X101827



A potent inhibitory ligand of the mitochondrial adenine nucleotide translocase (ANT).<sup>1</sup> Inhibits mitochondrial permeability transition pore opening.<sup>2,3</sup> Delivery of bongkreikic acid to the mitochondria prevents apoptosis in HeLa cells.<sup>4</sup>

- 1) Ziegler *et al.* (1993), *The adenine nucleotide translocase modulates oligomycin-induced quenching of pyranine fluorescence in submitochondrial particles*; J. Biol. Chem., **268** 25320
- 2) Marchetti *et al.* (1996), *Mitochondrial permeability transition triggers lymphocyte apoptosis*; J. Immunol., **157** 4830
- 3) Zamzami *et al.* (1996), *Inhibitors of permeability transition interfere with the disruption of the mitochondrial transmembrane potential during apoptosis*; FEBS Lett., **384** 53
- 4) Yamada *et al.* (2013), *Mitochondrial delivery of bongkreikic acid using a MITO-Porter prevents the induction of apoptosis in human HeLa cells*; J. Pharm. Sci., **102** 1008

**PHYSICAL DATA**

Molecular Weight:	486.61 (free acid)
Molecular Formula:	C <sub>28</sub> H <sub>38</sub> O <sub>7</sub>
Purity:	97% by HPLC
	NMR: (Conforms)
Solubility:	Miscible with DMSO
Physical Description:	Solution at 1 mg/mL (2 mM) in 0.01M Tris buffer pH 7.5 (contains 1 mg net bongkreikic acid per mL)
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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