



LKT Laboratories, Inc.

## Bongkreic Acid

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### Product Information

**Product ID** B5753

**CAS No.** 11076-19-0

**Chemical Name** 3-Carboxymethyl-17-methoxy-6,18,21-trimethyldocosa-  
-2,4,8,12,14,18,20-heptaenedioic acid

**Synonym** Bongkrek acid; Flavotoxin A; L7V4I673D2; C28H38O7

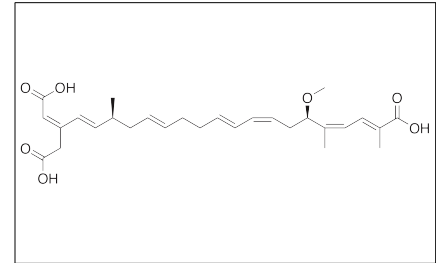
**Formula** C<sub>28</sub>H<sub>38</sub>O<sub>7</sub>

**Formula Wt.** 486.60

**Melting Point** 50-60°C

**Purity** ≥98%

**Solubility** Soluble as 2N in NH<sub>4</sub>OH.



**Bulk quantities available upon request**

Product ID	Size
B5753	100 µg
B5753	1 mg

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Bongkreic acid is an antioxidative compound that inhibits mitochondrial respiration by preventing the mitochondrial permeability transition (MPT); it suppresses transport of ADP/ATP across the mitochondrial inner membrane, decreasing oxidative stress.

**References** Nolly MB, Caldiz CI, Yeves AM, et al. The signaling pathway for aldosterone-induced mitochondrial production of superoxide anion in the myocardium. *J Mol Cell Cardiol.* 2014 Feb;67:60-8. PMID: 24355174.

Rey M, Forest E, Pelosi L. Exploring the conformational dynamics of the bovine ADP/ATP carrier in mitochondria. *Biochemistry.* 2012 Dec 4;51(48):9727-35. PMID: 23136955.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.