



LKT Laboratories, Inc.

Kartogenin

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Product Information

Product ID K0271

CAS No. 4727-31-5

Chemical Name 2-([1,1'-Biphenyl]-4-ylcarbamoyl)benzoic acid

Synonym UNII-Q93BBN11CP

Formula $C_{20}H_{15}NO_3$

Formula Wt. 317.34

Melting Point

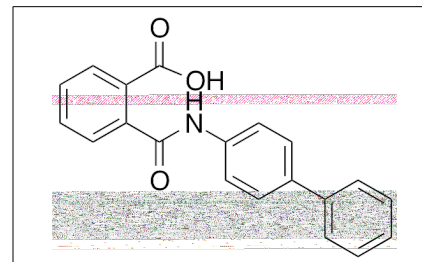
Purity $\geq 98\%$

Solubility DMSO 63 mg/mL
Ethanol 5 mg/mL
Water Insoluble

Store Temp -20°C

Ship Temp Ambient

Description Kartogenin stimulates chondrogenic differentiation of bone-derived mesenchymal stem cells (BMSCs) to improve repair of full-thickness cartilage defects in microfracture models. Kartogenin also induces formation of cartilage-like tissue and enhances wound healing in animal models. This compound may display pro-fibrotic activity. Kartogenin increases cartilage nodule formation, digit cartilaginous anlage elongation, synovial joint formation, and tendon maturation.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
K0271	5 mg	\$92.70
K0271	25 mg	\$363.10

References Liu C, Ma X, Li T, et al. Kartogenin, transforming growth factor- β 1 and bone morphogenetic protein-7 coordinately enhance lubricin accumulation in bone-derived mesenchymal stem cells. *Cell Biol Int*. 2015 Apr 9. [Epub ahead of print]. PMID: 25857705.

Xu X, Shi D, Shen Y, et al. Full-thickness cartilage defects are repaired via a microfracture technique and intraarticular injection of the small-molecule compound kartogenin. *Arthritis Res Ther*. 2015 Feb 2;17:20. PMID: 25641548.

Zhang J, Wang JH. Kartogenin induces cartilage-like tissue formation in tendon-bone junction. *Bone Res*. 2014;2. pii: 14008. PMID: 25419468.

Decker RS, Koyama E, Enomoto-Iwamoto M, et al. Mouse limb skeletal growth and synovial joint development are coordinately enhanced by Kartogenin. *Dev Biol*. 2014 Nov 15;395(2):255-67. PMID: 25238962.

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