



Product Information

Product ID K0271

CAS No. 4727-31-5

Chemical Name

Synonym

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

Formula Wt. 317.34

Melting Point

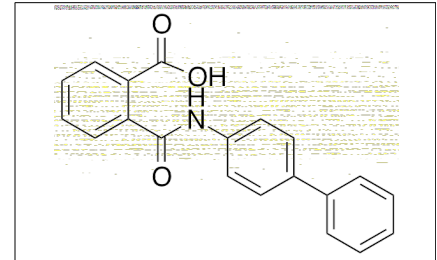
Purity $\geq 98\%$

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

Store Temp $-20^{\circ}C$

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.



Bulk quantities available upon request

Product ID	Size
K0271	5 mg
K0271	25 mg

References Liu C, Ma X, Li T, et al. Kartogenin, transforming growth factor- $\beta 1$ 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.