



LKT Laboratories, Inc.

## Copper Bis-3,5-diisopropylsalicylate

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### Product Information

Product ID C5662

CAS No. 21246-18-4

Chemical Name

Synonym Cu(II) (3,5-diisopropylsalicylate)

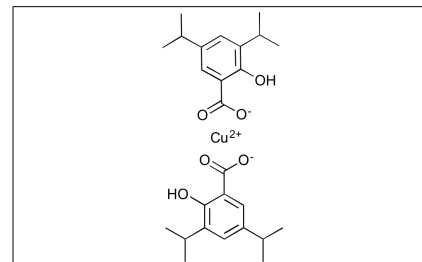
Formula  $C_{26}H_{34}O_6Cu$

Formula Wt. 506.11

Melting Point

Purity  $\geq 97\%$

Solubility



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
C5662	1 g	\$79.60
C5662	5 g	\$238.60

Store Temp Ambient

Ship Temp Ambient

**Description** Copper bis-3,5-diisopropylsalicylate exhibits anti-diabetic, analgesic, antioxidative, immunomodulatory, anti-fibrotic, and anticancer chemotherapeutic activities. Copper bis-3,5-diisopropylsalicylate decreases hyperglycemia and DNA damage in diabetic rats and also exhibits radical scavenging and electron accepting abilities in other models. This compound increases levels of bronchoalveolar cells and neutrophils, decreases levels of macrophages and lymphocytes, and suppresses the development of lung fibrosis in animal models. Additionally, copper bis-3,5-diisopropylsalicylate decreases tumor growth and increases survival rates in animal models of mammary cancer.

**References** Qazzaz M, Abdul-Ghani R, Metani M, et al. The antioxidant activity of copper(II) (3,5-diisopropyl salicylate)<sub>4</sub> and its protective effect against streptozotocin-induced diabetes mellitus in rats. *Biol Trace Elem Res.* 2013 Jul;154(1):88-96. PMID: 23677849.

Baqual JG, Sorenson JR. Down-regulation of NADPH-diaphorase (nitric oxide synthase) may account for the pharmacological activities of Cu(II)<sub>2</sub> (3,5-diisopropylsalicylate)<sub>4</sub>. *J Inorg Biochem.* 1995 Nov 1;60(2):133-48. Erratum in: *J Inorg Biochem.* 1997 Nov 15;68(3):233. PMID: 8530918.

Denis M. Antioxidant therapy partially blocks immune-induced lung fibrosis. *Inflammation.* 1995 Apr;19(2):207-19. PMID: 7601506.

Crispens CG Jr, Sorenson JR. Activity of CuDIPS against mammary cancer in C3H HeNCR mice. *Anticancer Res.* 1992 Jul-Aug;12(4):1271-3. PMID: 1503420.

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