



LKT Laboratories, Inc.

Catharanthine Sulfate

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Product Information

Product ID C0377

CAS No. 70674-90-7

Chemical Name

Synonym

Formula $C_{21}H_{24}N_2O_2 \cdot H_2SO_4$

Formula Wt. 434.51

Melting Point

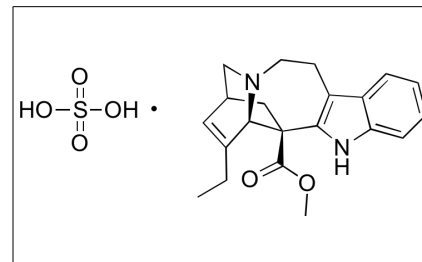
Purity $\geq 98\%$

Solubility

Store Temp 4°C

Ship Temp Ambient

Description Catharanthine is an alkaloid found in *Catharanthus* that is a chemical precursor in the synthesis of vinca alkaloids such as vinblastine and vincristine. Catharanthine displays weak anti-mitotic activity, binding tubulin poorly. Catharanthine exhibits anti-parasitic, vasodilatory, and antihypertensive activities. This compound shows antimalarial benefit against species of *Plasmodium*. In vivo, catharanthine inhibits voltage-gated Ca^{2+} channel currents, decreasing blood pressure and heart rate.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C0377	5 mg	\$49.50
C0377	25 mg	\$92.80
C0377	100 mg	\$154.60
C0377	500 mg	\$278.20

References Munigunt R, Becker K, Brun R, et al. Determination of antiplasmodial activity and binding affinity of selected natural products towards PfTrxR and PfGR. *Nat Prod Commun*. 2013 Aug;8(8):1135-6. PMID: 24079187.

Jadhav A, Liang W, Papageorgiou PC, et al. Catharanthine dilates small mesenteric arteries and decreases heart rate and cardiac contractility by inhibition of voltage-operated calcium channels on vascular smooth muscle cells and cardiomyocytes. *J Pharmacol Exp Ther*. 2013 Jun;345(3):383-92. PMID: 23532933.

Sertel S, Fu Y, Zu Y, et al. Molecular docking and pharmacogenomics of vinca alkaloids and their monomeric precursors, vindoline and catharanthine. *Biochem Pharmacol*. 2011 Mar 15;81(6):723-35. PMID: 21219884.

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