



# LKT Laboratories, Inc.

## Catharanthine Tartrate

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID C0378

CAS No.

Chemical Name 3,4-Didehydroibogamine-18-carboxylic acid methyl ester

Synonym Catharanthine

Formula  $C_{21}H_{24}N_2O_2 \cdot C_4H_6O_6$

Formula Wt. 486.52

Melting Point 126-128°C

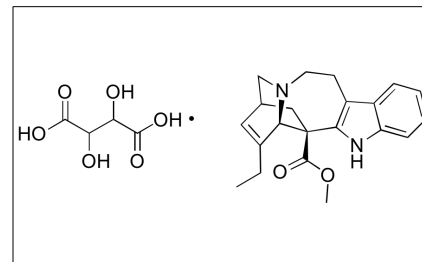
Purity ≥97%

Solubility Soluble in ethanol.

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. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size   | List Price |
|------------|--------|------------|
| C0378      | 5 mg   | \$40.00    |
| C0378      | 25 mg  | \$75.00    |
| C0378      | 100 mg | \$125.00   |
| C0378      | 500 mg | \$250.00   |

**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.