



Product Information

Product ID C0376

CAS No. 2468-21-5

Chemical Name

Synonym

Formula $C_{21}H_{24}N_2O_2$

Formula Wt. 336.43

Melting Point 138-140°C

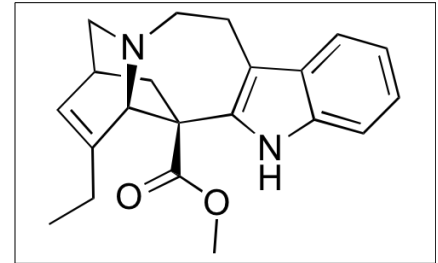
Purity $\geq 98\%$

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.



Bulk quantities available upon request

Product ID	Size
C0376	5 mg
C0376	25 mg
C0376	100 mg
C0376	500 mg

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.