

Product Data Sheet

Product Name: Deserpidine

Cat. No.: GC38768

Chemical Properties

Cas. No. 131-01-1

SMILES COC([C@H]1[C@@]2([H])C[C@]3([H])C4=C(CCN3C[C@@]2([H])C[C@@H](OC(C5=CC(OC)=C(OC)C(OC)=C5)=O)[C@@H]1OC)C6=CC=CC=C6N4)=O

Formula $C_{32}H_{38}N_2O_8$ M.Wt 578.65

Solubility DMSO: 100 mg/mL (172.82 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

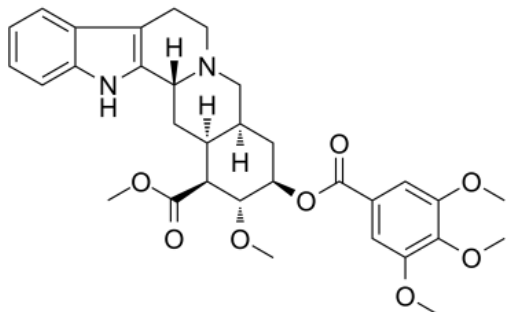
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

Deserpidine (Harmony) is an alkaloid isolated from the root of *Rauwolfia canescens* related to Reserpine. Deserpidine is used as an antihypertensive agent and a tranquilizer. Deserpidine is a competitive angiotensin converting enzyme (ACE) inhibitor. Deserpidine also decreases angiotensin II-induced aldosterone secretion by the adrenal cortex[1][2][3].

Deserpidine is an effective ganglionic blocking agent, which differs from Reserpine only by the absence of a methoxy group at C-11. Deserpidine has been used in the treatment of hypertension and psychosis. In addition, Deserpidine appears to act as a controller of other cardiac disorders[1][2].

- [1]. Varchi G, et al. Synthesis of deserpidine from reserpine. *J Nat Prod.* 2005 Nov;68(11):1629-31.
[2]. Zhang H, et al. Liquid chromatography/tandem mass spectrometry method for the quantification of deserpidine in human plasma: Application to a pharmacokinetic study. *J Chromatogr B Analyt*

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Technol Biomed Life Sci. 2009 Oct 1;877(27):3221-5. [3]. Fulton SC, et al. Comparison of the effectiveness of deserpidine, reserpine, and alpha-methyltyrosine on brain biogenic amines. Fed Proc. 1976 Dec;35(14):2558-62.

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