

Verapamil hydrochloride

Catalog Number :1521142

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Verapamil HCl, Manidon, Veroptinstada

Chemical Name: 2-(3,4-dimethoxyphenyl)-5-[2-(3,4-dimethoxyphenyl)ethyl-methylamino]-2-propan-2-ylpentanenitrile;hydrochloride

Molecular Formula: C₂₇H₃₈N₂O₄ HCL

Molecular Weight: 491.1

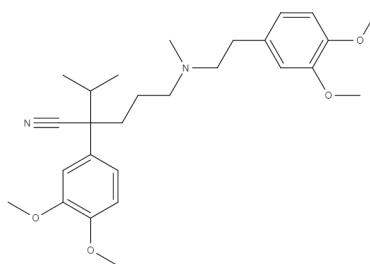
CAS Number: 152-11-4

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Cl—H

Description

Verapamil is an L-type calcium channel blocker and an inhibitor of drug efflux pump proteins such as P-glycoprotein that are often over-expressed in certain tumor cell lines. It is reported to exhibit vasodilator effects and increase the supply of blood and oxygen to the heart.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. DMSO up to 10mg/ml.

References

- 1.Lee, K. S., Tsien, R. W. (1983). Mechanism of calcium channel blockade by verapamil, D600, diltiazem and nitrendipine in single dialysed heart cells.;Nature,;302(5911), 790.
2. Henry, P. D. (1980). Comparative pharmacology of calcium antagonists: nifedipine, verapamil and diltiazem.;The American journal of cardiology,;46(6), 1047-1058.
3. Miller, T. P., Grogan, T. M., Dalton, W. S., Spier, C. M., Scheper, R. J., Salmon, S. E. (1991). P-glycoprotein expression in malignant lymphoma and reversal of clinical drug resistance with chemotherapy plus high-dose verapamil.;Journal of Clinical Oncology,;9(1), 17-24.