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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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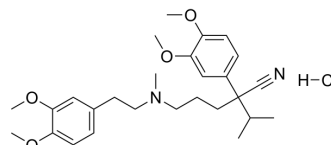
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Verapamil hydrochloride (Standard)

Cat. No.:	HY-A0064R
CAS No.:	152-11-4
Molecular Formula:	C ₂₇ H ₃₉ ClN ₂ O ₄
Molecular Weight:	491.06
Target:	Calcium Channel; P-glycoprotein; Cytochrome P450
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (101.82 mM; Need ultrasonic)

DMSO : ≥ 31 mg/mL (63.13 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.0364 mL	10.1821 mL	20.3641 mL
	5 mM		0.4073 mL	2.0364 mL	4.0728 mL
	10 mM		0.2036 mL	1.0182 mL	2.0364 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Verapamil (hydrochloride) (Standard) is the analytical standard of Verapamil (hydrochloride). This product is intended for research and analytical applications. Verapamil hydrochloride ((±)-Verapamil hydrochloride) is a calcium channel blocker and a potent and orally active first-generation P-glycoprotein (P-gp) inhibitor. Verapamil hydrochloride also inhibits CYP3A4. Verapamil hydrochloride has the potential for high blood pressure, heart arrhythmias and angina research^{[1][2][3]}.

IC₅₀ & Target

Calcium channel^[1]
 Permeability-glycoprotein (P-gp)^[1]
 CYP3A4^[1]

REFERENCES

[1]. Gowarty JL, et al. Verapamil as a culprit of palbociclib toxicity. J Oncol Pharm Pract. 2019 Apr;25(3):743-746.

[2]. Krikler DM. Verapamil in arrhythmia. Br J Clin Pharmacol. 1986;21 Suppl 2:183S-189S.

[3]. Zhou P, et al. Anti-arrhythmic effect of Verapamil is accompanied by preservation of cx43 protein in rat heart. PLoS One. 2013 Aug 12;8(8):e71567.

[4]. Rehnqvist N, et al. Effects of metoprolol vs verapamil in patients with stable angina pectoris. The Angina Prognosis Study in Stockholm (APSIS). Eur Heart J. 1996 Jan;17(1):76-81.

[5]. Kubo Y, et al. Blood-to-Retina Transport of Fluorescence-Labeled Verapamil at the Blood-Retinal Barrier. Pharm Res. 2018 Mar 12;35(5):93.

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

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