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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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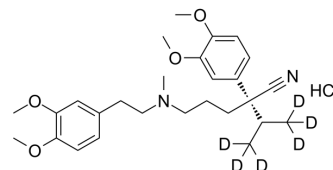
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(R)-(+)-Verapamil-d₆ hydrochloride

Cat. No.:	HY-W702292
CAS No.:	1795786-09-2
Molecular Formula:	C ₂₇ H ₃₃ D ₆ ClN ₂ O ₄
Molecular Weight:	497.1
Target:	Isotope-Labeled Compounds; Apoptosis; P-glycoprotein
Pathway:	Others; Apoptosis; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-(+)-Verapamil-d ₆ (hydrochloride) is deuterium labeled (R)-Verapamil (hydrochloride). (R)-Verapamil hydrochloride ((R)-(+)-Verapamil hydrochloride) is a P-Glycoprotein inhibitor. (R)-Verapamil hydrochloride blocks MRP1 mediated transport, resulting in chemosensitization of MRP1-overexpressing cells to anticancer agents ^{[1][2][3]} .
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REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Plumb JA, et al. The activity of verapamil as a resistance modifier in vitro in drug resistant human tumour cell lines is not stereospecific. *Biochem Pharmacol*. 1990 Feb 15;39(4):787-92.
- [3]. Perrotton T, et al. (R)- and (S)-verapamil differentially modulate the multidrug-resistant protein MRP1. *J Biol Chem*. 2007 Oct 26;282(43):31542-8. Epub 2007 Jul 22.

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

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