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**Product Data Sheet**

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Product Name: (R)-Verapamil D7 hydrochloride

Cat. No.: GC60407

**Chemical Properties**

Cas. No.

SMILES Cl[H].COC1=C(OC)C=CC(CCN(C)CCC[C@](C#N)(C2=CC(OC)=C(OC)C=C2)C(C([2H])([2H])[2H])([2H])C([2H])([2H])[2H])=C1Formula  $C_{27}H_{32}D_7ClN_2O_4$  M.Wt 498.11

Solubility 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.

Structure **Background**

(R)-Verapamil D7 hydrochloride ((R)-(+)-Verapamil D7 hydrochloride) is a 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 drugs[1][2].

[1]. 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. [2]. 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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