
Product Data Sheet

Product Name: (S)-Verapamil D7 hydrochloride

Cat. No.: GC60425

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])=C1

Formula $C_{27}H_{32}D_7ClN_2O_4$ 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**

(S)-Verapamil D7 hydrochloride ((S)-(-)-Verapamil D7 hydrochloride) is a deuterium labeled (S)-Verapamil hydrochloride. (S)-Verapamil hydrochloride (S(-)-Verapamil hydrochloride) inhibits leukotriene C4 (LTC4) and calcein transport by MRP1. (S)-Verapamil hydrochloride leads to the death of potentially resistant tumor cells[1][2].

[1]. 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. [2]. Tannergren C, et al. St John's wort decreases the bioavailability of R- and S-verapamil through induction of the first-pass metabolism. *Clin Pharmacol Ther.* 2004 Apr;75(4):298-309.

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

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