
Product Data Sheet

Product Name: Tariquidar dihydrochloride
Cat. No.: GC50254

Chemical Properties

Cas. No. 1992047-62-7

SMILES O=C(C1=CC(OC)=C(OC)C=C1NC(C2=CN=C(C=CC=C3)C3=C2)=O)NC(C=C4)=CC=C4CCN5CC6=CC(OC)=C(OC)C=C6CC5.Cl.Cl

Formula C₃₈H₃₈N₄O₆·2HCl

M.Wt

719.66

Solubility Soluble in DMSO

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 sizes: ship with RT, or blue ice upon request.

Structure

Background

Potent P-glycoprotein (P-gp) inhibitor (IC₅₀ = 5.1 nM). Reverses drug resistance in multiple MDR cell lines. Acts as a substrate for breast cancer resistance protein (BCRP) at low concentrations and acts as an inhibitor of BCRP when used at >100 nM concentration. Potentiates the cytotoxic effects of doxorubicin and mitoxantrone in vitro.

Kannan et al (2011) The "specific" P-glycoprotein inhibitor Tariquidar is also a substrate and an inhibitor for breast cancer resistance protein (BCRP/ABCG2). ACS Chem. Neurosci. 2 82 PMID:22778859 | Loo et al (2015) Mapping the binding site of the inhibitor Tariquidar that stabilizes the first transmembrane domain of P-glycoprotein. J. Biol. Chem. 290 29389 PMID:26507655

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

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