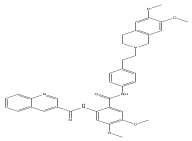
PRODUCT: Tariquidar

ALTERNATE NAME: N-[2-[[4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)ethyl]phenyl]carbamoyl]-4,5-dimethoxyphenyl]quinoline-3-carboxamide; XR9576, XR 9576, XR-9576,Tariquidar

CATALOG #: 2853-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{38}H_{38}N_4O_6$

MOLECULAR WEIGHT: 646.73

CAS NUMBER: 206873-63-4

APPEARANCE: Light yellow solid

SOLUBILITY: DMSO (>6 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 ℃. Protect from air and light

DESCRIPTION: Tariquidar is a potent, specific, noncompetitive inhibitor of P-glycoprotein (P-gp) (K_d = 5.1 nM). Tariquidar inhibits the ATPase activity of P-gp, suggesting that the modulating effect is derived from the inhibition of substrate binding, inhibition of ATP hydrolysis or both. At low concentrations, Tariquidar acts selectively as an inhibitor of P-gp and as a substrate of BCRP (breast cancer resistance protein). At much higher concentrations (≥100 nM). Tariquidar acts as an inhibitor of both P-gp and BCRP.

REFERENCES:

Kannan, P., *et al.* (2011). *ACS Chem. Neurosci.* **2,** 82-89.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Elacridar **(Cat. No. 2792-5, 25)**
MK-571 **(Cat. No. 2691-5, 25)**
MK-571, sodium salt **(Cat. No. 2692-5, 25)**
NSC-23925 **(Cat. No. 2686-5, 25)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

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