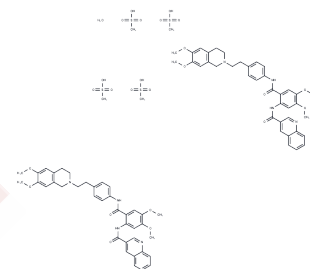


## Tariquidar dimesylate

## Chemical Properties

CAS No. :	625375-84-0
Formula:	C <sub>80</sub> H <sub>94</sub> N <sub>8</sub> O <sub>25</sub> S <sub>4</sub>
Molecular Weight:	1695.9
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Tariquidar is a P-glycoprotein inhibitor undergoing research as an adjuvant against multidrug resistance in cancer. Tariquidar non-competitively binds to the p-glycoprotein transporter, thereby inhibiting transmembrane transport of anticancer drugs.
Targets(IC50)	Others,P-gp

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5897 mL	2.9483 mL	5.8966 mL
5 mM	0.1179 mL	0.5897 mL	1.1793 mL
10 mM	0.059 mL	0.2948 mL	0.5897 mL
50 mM	0.0118 mL	0.059 mL	0.1179 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Joshi P, Vishwakarma RA, Bharate SB. Natural alkaloids as P-gp inhibitors for multidrug resistance reversal in cancer. *Eur J Med Chem.* 2017 Sep 29;138:273-292. doi: 10.1016/j.ejmech.2017.06.047. Epub 2017 Jun 27. Review. PubMed PMID: 28675836.

Lubberink M. Kinetic Models for Measuring P-glycoprotein Function at the Blood-Brain Barrier with Positron Emission Tomography. *Curr Pharm Des.* 2016;22(38):5786-5792. Review. PubMed PMID: 27494063.

Zinzi L, Capparelli E, Cantore M, Contino M, Leopoldo M, Colabufo NA. Small and Innovative Molecules as New Strategy to Revert MDR. *Front Oncol.* 2014 Jan 21;4:2. doi: 10.3389/fonc.2014.00002. eCollection 2014. Review. PubMed PMID: 24478983; PubMed Central PMCID: PMC3896858.

Wanek T, Mairinger S, Langer O. Radioligands targeting P-glycoprotein and other drug efflux proteins at the blood-brain barrier. *J Labelled Comp Radiopharm.* 2013 Mar-Apr;56(3-4):68-77. doi: 10.1002/jlcr.2993. Review. PubMed PMID: 24285312.

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