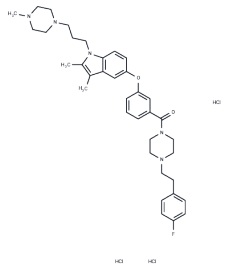
Data Sheet (Cat.No.T10395)

TargetMol
YOUR TARGET MOLECULES

ATM-3507 trihydrochloride (1861449-70-8 free base)

Chemical Properties



CAS No. :

Formula: C37H49Cl3FN5O2

Molecular Weight: 721.17

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	ATM-3507 trihydrochloride is a potent tropomyosin inhibitor (IC50s: 3.83-6.84 μM in human melanoma cell lines).
Targets(IC50)	Others
In vivo	The maximal tolerance dose (MTD) for TR100 and ATM-3507 is 60 and 150 mg/kg, respectively. The median survival of mice increased from 18 days for mice treated with ATM-3507 to more than 49 days for mice treated with the combination. It is also found that twice-weekly intravenous administration of ATM-3507 also shows combination efficacy. The impact of each treatment or the combination of body weight is minimal. Drug levels are measured following the intravenous administration of ATM-3507 at 30 mg/kg in Balb/c mice (n=3 per time point). The mean half-life of ATM-3507 is 5.01 hrs for the terminal elimination phase. The mean AUC0-t in the plasma is 14,548 ng/h/mL. The Cmax of ATM-3507 is 5,758 ng/mL and the t1/2 is 5.01 h. The observed plasma clearance and volume of distribution at steady state of ATM-3507 is 33.8 mL/min/kg and 7.23 L/kg, respectively.

Solubility Information

Solubility	DMSO: 250 mg/mL (346.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3866 mL	6.9332 mL	13.8664 mL
5 mM	0.2773 mL	1.3866 mL	2.7733 mL
10 mM	0.1387 mL	0.6933 mL	1.3866 mL
50 mM	0.0277 mL	0.1387 mL	0.2773 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.

Reference

Currier MA, et al. Identification of Cancer-Targeted Tropomyosin Inhibitors and Their Synergy with Microtubule Drugs.Mol Cancer Ther. 2017 Aug;16(8):1555-1565.