

Product Data Sheet

Product Name: ATM-3507 trihydrochloride

Cat. No.: GC35418

Chemical Properties

Cas. No. 2438679-30-0

SMILES O=C(C1=CC=CC(OC2=CC3=C(N(CCCN4CCN(C)CC4)C(C)=C3C)C=C2)=C1)N5CCN(CCC6=CC=C(F)C=C6)CC5.Cl.Cl.Cl

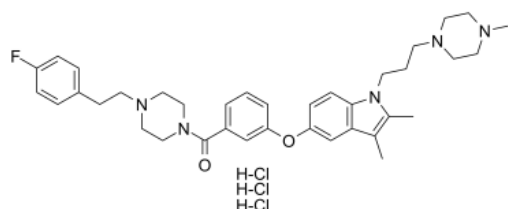
Formula $C_{37}H_{49}Cl_3FN_5O_2$ M.Wt 721.17

Solubility DMSO: 250 mg/mL (346.66 mM) 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

ATM-3507 trihydrochloride is a potent tropomyosin inhibitor with IC50s from 3.83-6.84 μM in human melanoma cell lines. IC50: 3.83-6.84 μM (tropomyosin, in human melanoma celllines)[1].

The maximal tolerance dose (MTD) for TR100 and ATM-3507 is 60 and 150 mg/kg, respectively. It is found that a significant inhibition of tumor growth and prolongation of animal survival using either combination compared with each monotherapy. The median survival of mice increased from 18 days

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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 show combination efficacy. The impact of each treatment or the combination on 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 AUC_{0-t} in the plasma is 14,548 ng/h/mL. The C_{max} of ATM-3507 is 5,758 ng/mL and the t_{1/2} 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[1].

[1]. 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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA