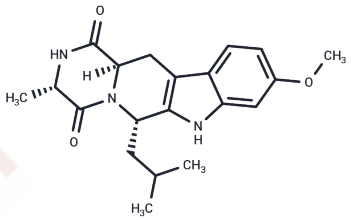
Data Sheet (Cat.No.T16113)

TargetMol

ML753286

Chemical Properties



CAS No. : 1699720-89-2

Formula: C20H25N3O3

Molecular Weight: 355.43

Appearance: no data available

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

Biological Description

Description	ML753286 has high permeability and low to medium clearance in rodent and human liver S9 fractions. ML753286 is an orally active and selective inhibitor of BCRP (IC50: 0.6 μM). It is also stable in plasma across species.
Targets(IC50)	AMPK
In vitro	ML753286 shows IC50 values of >30, 0.6, and 39.0 μM for the inhibition of P-gp-, BCRP-, and OATP mediated transport, respectively.
In vivo	ML753286 [25- or 50-mg/kg (PO); 10 or 20 mg/kg (IV); 0.083-24 hours] appears to fully suppress Bcrp functions in rats at 25 mg/kg p.o. or 20 mg/kg i.v. In Bcrp KO rats pre-administered ML753286 [25-mg/kg]; WT rats) and pre-administered ML753286 (50-mg/kg; WT rats), the tmax values in plasma were 1.4, 4.0, and 4.1 hours, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8135 mL	14.0675 mL	28.1349 mL
5 mM	0.5627 mL	2.8135 mL	5.627 mL
10 mM	0.2813 mL	1.4067 mL	2.8135 mL
50 mM	0.0563 mL	0.2813 mL	0.5627 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

Liao M, et al. Preclinical absorption, distribution, metabolism, excretion and pharmacokinetics of a novelselective inhibitor of breast cancer resistance protein (BCRP). Xenobiotica. 2018 May;48(5):467-477.

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