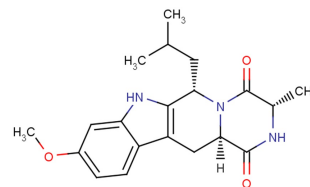


ML753286

Chemical Properties

CAS No.:	1699720-89-2
Formula:	C ₂₀ H ₂₅ N ₃ O ₃
Molecular Weight:	355.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



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 (IC ₅₀ : 0.6 μM). It is also stable in plasma across species.
Targets(IC ₅₀)	BCRP: 0.6 μM
In vitro	ML753286 shows IC ₅₀ 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 at 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 t _{max} values in plasma were 1.4, 4.0, and 4.1 hours , respectively.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.813 mL	14.067 mL	28.135 mL
5 mM	0.563 mL	2.813 mL	5.627 mL
10 mM	0.281 mL	1.407 mL	2.813 mL
50 mM	0.056 mL	0.281 mL	0.563 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481