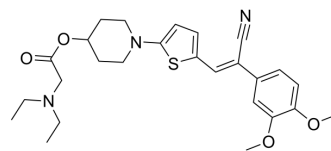


YHO-13351 free base

Cat. No.:	HY-12758A		
CAS No.:	912288-64-3		
Molecular Formula:	C ₂₆ H ₃₃ N ₃ O ₄ S		
Molecular Weight:	483.62		
Target:	BCRP		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (206.77 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0677 mL	10.3387 mL	20.6774 mL
	5 mM	0.4135 mL	2.0677 mL	4.1355 mL
	10 mM	0.2068 mL	1.0339 mL	2.0677 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

YHO-13351 free base is the prodrug of YHO-13177, which is a potent and specific inhibitor of BCRP.

REFERENCES

- [1]. Yamazaki R, et al. Novel acrylonitrile derivatives, YHO-13177 and YHO-13351, reverse BCRP/ABCG2-mediated drug resistance in vitro and in vivo. *Mol Cancer Ther.* 2011 Jul;10(7):1252-63.
- [2]. Shishido Y, et al. ABCG2 inhibitor YHO-13351 sensitizes cancer stem/initiating-like side population cells to irinotecan. *Anticancer Res.* 2013 Apr;33(4):1379-86.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA