Efflux inhibitor-1

Cat. No.: HY-112505

CAS No.: 1776055-29-8

Molecular Formula: $C_{28}H_{25}N_5O_3$

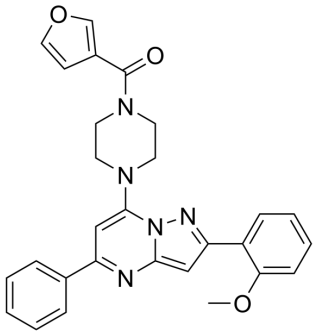
Molecular Weight: 479.53

Target: BCRP

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (104.27 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0854 mL	10.4269 mL	20.8538 mL
	5 mM	0.4171 mL	2.0854 mL	4.1708 mL
	10 mM	0.2085 mL	1.0427 mL	2.0854 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 (5.21 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Efflux inhibitor-1 (compound 2) is a pyrazolo[1,5-a]pyrimidine efflux inhibitor. Efflux inhibitor-1 selectively targets toward ABCG2/BCRP over ABCB1 with IC_{50}s of 0.45 μM and 2.17 μM, respectively[1].

IC_{50} & Target

IC50: 0.45 μM (ABCG2/BCRP), 2.17 μM (ABCB1)[1]

REFERENCES

[1]. Larson, et al. Selective efflux inhibitors and related pharmaceutical compositions and methods of treatment: United States, US9056111[P]. 2015-06-16.

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

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