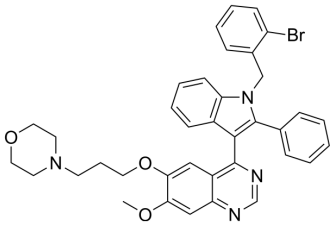
YS-370

Cat. No.:	HY-132866
CAS No.:	2470908-79-1
Molecular Formula:	$C_{37}H_{35}BrN_4O_3$
Molecular Weight:	663.6
Target:	P-glycoprotein
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (12.55 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5069 mL	7.5347 mL	15.0693 mL
	5 mM	0.3014 mL	1.5069 mL	3.0139 mL
	10 mM	0.1507 mL	0.7535 mL	1.5069 mL

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

BIOLOGICAL ACTIVITY

Description

YS-370 (compound 44) is a potent, high selective, and orally active inhibitor of P-glycoprotein (P-gp). YS-370 stimulates the P-gp ATPase activity and has moderate inhibition against CYP3A4. YS-370 effectively reverses multidrug resistance (MDR) to paclitaxel and colchicine in SW620/AD300 and HEK293T-ABCB1 cells. YS-370 in combination with paclitaxel achieves much stronger antitumor activity[1].

REFERENCES

[1]. Yuan S, et al. Discovery of New 4-Indolyl Quinazoline Derivatives as Highly Potent and Orally Bioavailable P-Glycoprotein Inhibitors. J Med Chem. 2021;64(19):14895-14911.

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

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