MC70

Cat. No.: HY-113805

CAS No.: 1031367-64-2

Molecular Formula: $C_{24}H_{25}NO_3$

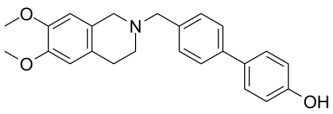
Molecular Weight: 375.46

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 : 250 mg/mL (665.85 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6634 mL	13.3170 mL	26.6340 mL
5 mM	0.5327 mL	2.6634 mL	5.3268 mL
10 mM	0.2663 mL	1.3317 mL	2.6634 mL

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

BIOLOGICAL ACTIVITY

Description

MC70 is a potent and non-selective P-glycoprotein (P-gp) inhibitor with an EC_{50} of 0.69 μM. MC70 is an ABC transporters inhibitor and anticancer agent. MC70 interacts with ABCB1, ABCG2 and ABCC1[1][2].

IC_{50} & Target

EC50: 0.69 μM (P-glycoprotein)[1]

REFERENCES

[1]. Stefano Guglielmo, et al. Structure-Activity Relationship Studies on Tetrahydroisoquinoline Derivatives: [4'-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-ylmethyl)biphenyl-4-ol] (MC70) Conjugated through Flexible Alkyl Chains with Furazan Moieties Gives Ri

[2]. Amalia Azzariti, et al. MC70 potentiates doxorubicin efficacy in colon and breast cancer in vitro treatment. Eur J Pharmacol. 2011 Nov 16;670(1):74-84.

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

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