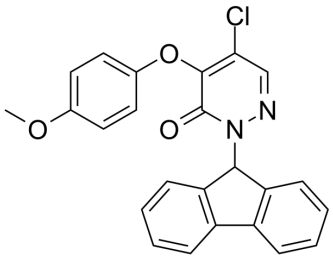
CYM 50769

Cat. No.:	HY-108624		
CAS No.:	1421365-63-0		
Molecular Formula:	$C_{24}H_{17}ClN_2O_3$		
Molecular Weight:	416.86		
Target:	Others		
Pathway:	Others		
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 : 100 mg/mL (239.89 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3989 mL	11.9944 mL	23.9889 mL
	5 mM	0.4798 mL	2.3989 mL	4.7978 mL
	10 mM	0.2399 mL	1.1994 mL	2.3989 mL

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

BIOLOGICAL ACTIVITY

Description

CYM 50769 is a non-peptidic selective antagonist of neuropeptides B and W receptor 1 (NPBWR1). CYM 50769 can attenuates the NPW-23-induced cell proliferation in ATDC5. CYM 50769 can be used for researching endochondral bone formation[1].

IC_{50} & Target

NPBWR1, GPR7[1]

In Vitro

CYM 50769 (1 and 3 μM; 30 min) attenuates the NPW-23-induced ATDC5 cell proliferation in a dose-dependent manner[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay

Cell Line:	ATDC5 (exposed with 200 ng/mL NPW-23 for 24 h)[1]
Concentration:	1 and 3 μM
Incubation Time:	30 min

Result:	Attenuated the NPW-23-induced cell proliferation in a dose-dependent manner.

REFERENCES

[1]. Guerrero M, et al. SAR analysis of novel non-peptidic NPBWR1 (GPR7) antagonists. Bioorg Med Chem Lett. 2013 Feb 1;23(3):614-9.

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