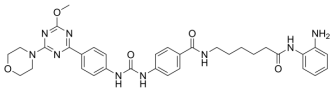
PH14

Cat. No.:	HY-149669
Molecular Formula:	$C_{34}H_{39}N_9O_5$
Molecular Weight:	653.73
Target:	PI3K; HDAC; Apoptosis
Pathway:	PI3K/Akt/mTOR; Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (76.48 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5297 mL	7.6484 mL	15.2968 mL
	5 mM	0.3059 mL	1.5297 mL	3.0594 mL
	10 mM	0.1530 mL	0.7648 mL	1.5297 mL

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

BIOLOGICAL ACTIVITY

Description

PH14 is a dual PI3K/HDAC inhibitor with IC_{50} values of 20.3 nM and 24.5 nM for PI3Kα and HDAC3, respectively. PH14 has antiproliferative activity and also induces apoptosis in Jeko-1 cells. PH14 can be used in cancer research, such as lymphoma [1].

IC_{50} & Target		
	PI3Kα	HDAC3
	20.3 nM (IC_{50})	24.5 nM (IC_{50})

REFERENCES

[1]. Deng J, et al. Discovery of benzamide-based PI3K/HDAC dual inhibitors with marked pro-apoptosis activity in lymphoma cells. Eur J Med Chem. 2023 Nov 3;262:115915.

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