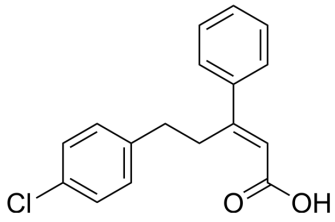
PS47

Cat. No.:	HY-13851
CAS No.:	1180676-33-8
Molecular Formula:	$C_{17}H_{15}ClO_2$
Molecular Weight:	286.75
Target:	PDK-1
Pathway:	PI3K/Akt/mTOR

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 (348.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4874 mL	17.4368 mL	34.8736 mL
	5 mM	0.6975 mL	3.4874 mL	6.9747 mL
	10 mM	0.3487 mL	1.7437 mL	3.4874 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (8.72 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PS47 is an inactive E-isomer of PS48. PS48 is an activator of PDK1. PS47 can be used as a negative control for PS48[1][2].

In Vitro

PS47 shows very low binding affinity or no binding to PDK1 (K_d>200 μM)[1].

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

REFERENCES

[1]. Hindie V, et, al. Structure and allosteric effects of low-molecular-weight activators on the protein kinase PDK1. Nat Chem Biol. 2009 Oct;5(10):758-64.

[2]. Pastor-Flores D, et, al. PIF-pocket as a target for C. albicans Pkh selective inhibitors. ACS Chem Biol. 2013 Oct 18;8(10):2283-92.

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

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