(E)-Akt inhibitor-IV

Cat. No.: HY-14971

CAS No.: 959841-49-7

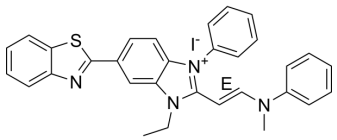
Molecular Formula: $C_{31}H_{27}IN_4S$

Molecular Weight: 614.54

Target: Akt

Pathway: PI3K/Akt/mTOR

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (81.36 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6272 mL	8.1362 mL	16.2723 mL
	5 mM	0.3254 mL	1.6272 mL	3.2545 mL
	10 mM	0.1627 mL	0.8136 mL	1.6272 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 mg/mL (3.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(E)-Akt inhibitor-IV ((E)-AKTIV) is a PI3K-Akt inhibitor, with potent cytotoxic[1].

IC_{50} & Target

Akt[1]

In Vitro

(E)-Akt inhibitor-IV (compound 7) exhibits average GI_{20} of 0.04 μM on four cell lines (MDA-MB468 cells, MDA-MB231 cells, MCF7 cells and 184B5 cells)[1].
(E)-Akt inhibitor-IV shows little effects on the growth of 184B5 non-cancer cells at the average GI_{20} doses[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Leuk Res Rep. 2023 Mar 22;128:107059.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Changkun Hu, et al. A 4-aminoquinoline derivative that markedly sensitizes tumor cell killing by Akt inhibitors with a minimum cytotoxicity to non-cancer cells. Eur J Med Chem. 2010 Feb;45(2):705-9.

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