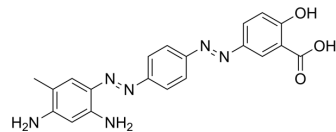


NSC45586

Cat. No.:	HY-19820
CAS No.:	739301-85-0
Molecular Formula:	C ₂₀ H ₁₈ N ₆ O ₃
Molecular Weight:	390.4
Target:	Akt; Ser/Thr Protease
Pathway:	PI3K/Akt/mTOR; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (53.36 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.5615 mL	12.8074 mL	25.6148 mL
	5 mM		0.5123 mL	2.5615 mL	5.1230 mL
	10 mM		0.2561 mL	1.2807 mL	2.5615 mL

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

BIOLOGICAL ACTIVITY

Description

NSC45586 is an inhibitor of pleckstrin homology domain and leucine-rich repeat protein phosphatase (PHLPP). NSC45586 targets the PP2C phosphatase domain in PHLPP1 and PHLPP2. NSC45586 can activate AKT in neurons^[1].

IC₅₀ & Target

PHLPP1/2, Akt^[1]

REFERENCES

[1]. Jackson TC, et, al. Pharmacological inhibition of pleckstrin homology domain leucine-rich repeat protein phosphatase is neuroprotective: differential effects on astrocytes. *J Pharmacol Exp Ther.* 2013 Nov;347(2):516-28.

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