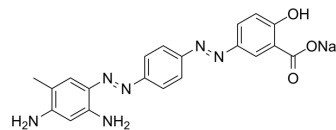


NSC45586 sodium

Cat. No.:	HY-19820A
CAS No.:	6300-44-3
Molecular Formula:	C ₂₀ H ₁₇ N ₆ NaO ₃
Molecular Weight:	412.38
Target:	Akt; Ser/Thr Protease
Pathway:	PI3K/Akt/mTOR; Metabolic Enzyme/Protease
Storage:	4°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

H₂O : 5 mg/mL (12.12 mM; ultrasonic and warming and heat to 80°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.4249 mL	12.1247 mL	24.2495 mL	
5 mM	0.4850 mL	2.4249 mL	4.8499 mL	
10 mM	0.2425 mL	1.2125 mL	2.4249 mL	

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

BIOLOGICAL ACTIVITY

Description

NSC45586 sodium is an inhibitor of pleckstrin homology domain and leucine-rich repeat protein phosphatase (PHLPP). NSC45586 sodium targets the PP2C phosphatase domain in PHLPP1 and PHLPP2. NSC45586 sodium 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.

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