CaMKP inhibitor sodium

Cat. No.: HY-11000A

CAS No.: 52789-62-5

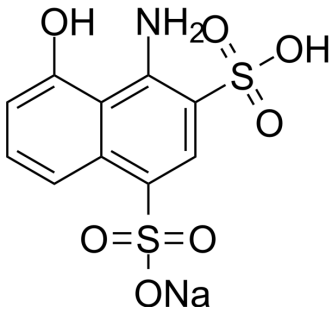
Molecular Formula: $C_{10}H_8NNaO_7S_2$

Molecular Weight: 341.29

Target: Phosphatase

Pathway: Metabolic Enzyme/Protease

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (14.65 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9301 mL	14.6503 mL	29.3006 mL
	5 mM	0.5860 mL	2.9301 mL	5.8601 mL
	10 mM	0.2930 mL	1.4650 mL	2.9301 mL

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

BIOLOGICAL ACTIVITY

Description

CaMKP inhibitor sodium (compound 5) is an inhibitor of Ca^{2+}/neutral protein-dependent protein concentration (CaMKP) and its nuclear type (CaMKP-N) (IC50: 6.4 μM, CaMKP; 6.6 μM, CaMKP-N). CaMKP is one type of Ser/Thr protein, which can be passed through to remove the oxidized oxidized protein (CaMK). CaMKP inhibitor sodium inhibits CaMKP mediated phospho-CaMKI hydrolysis, unaffectes protein phosphoric acid 2C (PP2C) and calcineurin (CaN)[1].

IC_{50} & Target

IC50: 6.4 μM (CaMKP); 6.6 μM (CaMKP-N)[1]

In Vitro

CaMKP inhibitor sodium (10 μM; 6 h) inhibits CaMKP-N expressed in Neuro2a cells[1].
CaMKP inhibitor sodium (2.5 μM, 5 μM) inhibits CaMKP activity instead of PP2C activity in Neuro2a cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sueyoshi N, et al. Inhibitors of the Ca(2+)/calmodulin-dependent protein kinase phosphatase family (CaMKP and CaMKP-N). Biochem Biophys Res Commun. 2007 Nov

23;363(3):715-21.

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