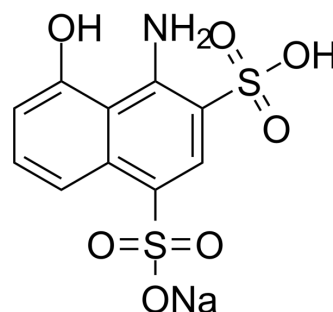


CaMKP inhibitor sodium

Cat. No.:	HY-11000A
CAS No.:	52789-62-5
Molecular Formula:	C ₁₀ H ₈ NNaO ₇ S ₂
Molecular Weight:	341.29
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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) (IC ₅₀ : 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, unaffected protein phosphoric acid 2C (PP2C) and calcineurin (CaN) ^[1] .
IC₅₀ & Target	IC ₅₀ : 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.

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

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