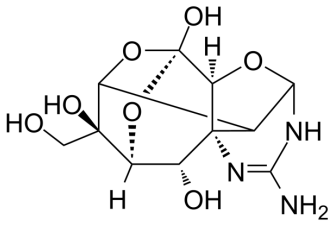
4,9-Anhydrotetrodotoxin

Cat. No.:	HY-126985
CAS No.:	13072-89-4
Molecular Formula:	$C_{11}H_{15}N_3O_7$
Molecular Weight:	301.25
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	4,9-Anhydrotetrodotoxin is a selective voltage-gated sodium channel (VGSC) inhibitor that blocks Nav1.1 and Nav1.6 in human brain and induces a hyperpolarizing shift in the voltage dependence of inactivated Nav1.6[1].
In Vitro	4,9-Anhydrotetrodotoxin (0.01-10000 nM) results in significant blockade of Nav1.6-mediated Na current in the nanomolar range, it also has significant effects on Nav1.1-mediated Na current in human brain sample[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nicholas Denomme, et al. The voltage-gated sodium channel inhibitor, 4,9-anhydrotetrodotoxin, blocks human Nav1.1 in addition to Nav1.6. Neurosci Lett. 2020 Apr 17;724:134853.

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