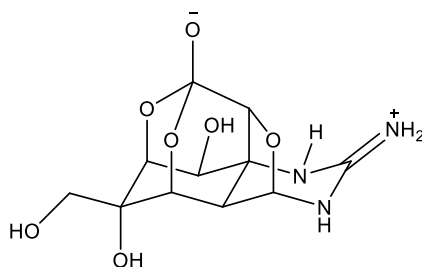


**Catalog # 10-3700**  
**4,9-Anhydrotetrodotoxin**

CAS# 13072-89-4

Lot # FBA5291



4,9-Anhydrotetrodotoxin is a highly selective blocker of the Na(v1.6) sodium channel ( $IC_{50}$ 's: Na(v1.2) = 260 nM, Na(v1.3) = 341 nM, Na(v1.4) = 988 nM, Na(v1.5) = 11.6  $\mu$ M, **Na(v1.6) = 7.8 nM**, Na(v1.7) = 1.27  $\mu$ M, Na(v1.8) = >30  $\mu$ M.).<sup>1</sup> It has recently been shown to also potently block human Nav1.1 channels.<sup>2</sup>

- 1) Rosker *et al.* (2007), *The TTX metabolite 4,9-anhydro-TTX is a highly specific blocker of the Na(v1.6) voltage-dependent sodium channel*; Am.J.Physiol.Cell Physiol., **293** C783.
- 2) Denomme *et al.* (2020), *The voltage-gated sodium channel inhibitor, 4,9-anhydrotetrodotoxin, blocks human Nav1.1 in addition to Nav1.6*; Neurosci. Lett., **724** 134853

**PHYSICAL DATA**

Molecular Weight:	301.25
Molecular Formula:	C <sub>11</sub> H <sub>15</sub> N <sub>3</sub> O <sub>7</sub>
Purity:	>98% by HPLC: 1% Acetonitrile/0.05M NH <sub>4</sub> OAc, 0.5 mL/min, Luna C18, ELSD detection NMR: Conforms High Res Mass: Conforms
Solubility:	Ethanol (up to 5 mg/ml), Water (up to 1 mg/ml)
Physical Description:	Thin film
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Make solutions fresh daily. Toxic.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**