

## Tetrodotoxin

This toxin reversibly blocks the sodium channels of neurons and has been a widely used tool for mechanistic studies of neurons, skeletal muscle, and cardiac muscle cells.



## Product attributes

<b>Format</b>	Citrate Free, With Citrate
<b>Toxin</b>	Tetrodotoxin
<b>CAS number</b>	4368-28-9
<b>Molecular weight</b>	319.28

## Product Description

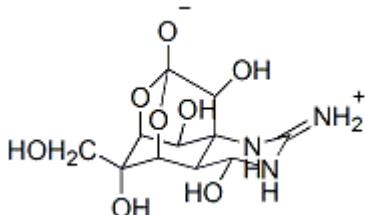
**Please Note: Due to federal and state regulations, this item is can be ordered by quote request only.**

Tetrodotoxin (TTX) is a potent neurotoxin that reversibly binds and blocks sodium channels to disrupt the action potential and inhibit the firing of neurons. It is a widely used tool to study the mechanism of action of neurons, skeletal muscle cells, and cardiac muscle cells.

- Reversibly binds and blocks voltage-gated sodium channels
- Available with citrate or citrate-free
- Tetrodotoxin with citrate is water soluble

Tetrodotoxin citrate-free can be dissolved in slightly acidic buffer. Tetrodotoxin with citrate can be dissolved in water to obtain TTX in pH 4.8 citrate buffer.

### Chemical Structure:



**Note:** This product is not available for sale outside of the U.S.

## References

1. Neurocomputing. 70, 10 (2007), DOI: 10.1016/j.neucom.2006.10.135
2. Frontiers in Behavioral Neuroscience 4, 21 (2010). DOI: 10.3389/fnbeh.2010.00021
3. J Neuroscience 30, 32 (2010), DOI: 10.1523/JNEUROSCI.1818-10.2010
4. J Neurophysiol 122, 4 (2019), DOI: 10.1152/jn.00038.2019

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