

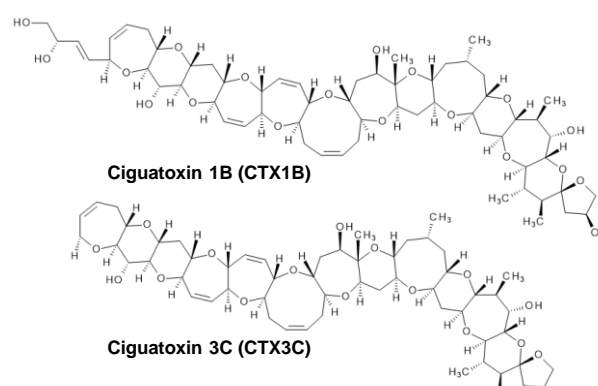
# Toxic components derived from marine organisms Maitotoxin and Ciguatoxin CTX 1B

Marine toxins are natural poisons possessed by fish and shellfish and cause food poisoning. Marine toxins are not only found in fish and shellfish, but also in microalgae or marine algae such as marine microorganisms and plankton, which are bio-concentrated by the food chain and cause poisoning in humans who eat them. Furthermore, global climatic changes have been accompanied by changes in the distribution of marine poisons, and the areas where food poisoning occurs are also changing. Therefore, research on various marine toxins is in progress. Fujifilm Wako provides a variety of reagents and kits related to marine toxins.

## For Ciguatoxin Analysis

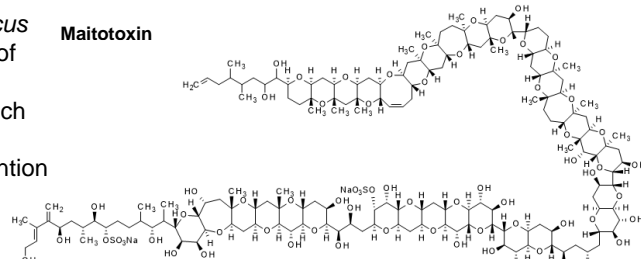
### ■ Ciguatoxin CTX 1B, CTX 3C

Ciguatera food poisoning is the world's largest marine poisoning with over 50,000 people poisoning per year. It is a very strong neurotoxin, and the causative agent is ciguatoxins (CTX), which are produced by toxic dinoflagellates. There are numerous analogues of CTX, and we provide the CTX 3C and CTX 1B.



### ■ Maitotoxin

Maitotoxin (MTX) is produced by dinoflagellate (*Gambierdiscus toxicus*). And it is named Maitotoxin after the Tahitian name of Striated surgeonfish "maito", which is a cause of ciguatera poisoning. MTX is the largest natural organic compound, which known structural formula. Since MTX exhibits a specific intracellular uptake of extracellular  $Ca^{2+}$ , it has attracted attention for the mechanism of signal transduction mediated by  $Ca^{2+}$ .



### ■ CTX ELISA 1B BBT

The world's first ELISA kit that detects CTX1B and 54-deoxyCTX1B in a wide concentration range (0.2-0.0005 ppb).

- ✓ **Easy**  
Can quantify easily by using sandwich ELISA.
- ✓ **Rapidly**  
Can measure within two hours.
- ✓ **Specificity**  
Be Specific for CTX1B and 54-deoxyCTX1B, and no cross-reactivity with other CTXs.
- ✓ **High sensitivity**  
Can detect 5 to 200 pg / mL (ppt) by colorimetric method.



## Product List

Code No.	Product Name		Grade / Manufacture	Volume
038-25801	CiguatoxinCTX 1B	F <sup>o</sup>	for Biochemistry	100 ng
030-21581	CiguatoxinCTX 3C	F <sup>o</sup>	for Biochemistry	100 ng
131-19011	Maitotoxin	F <sup>o</sup>	for Biochemistry	10 µg
382-14341	CTX-ELISA 1B	Ref	Bold Biotechnology Co., Ltd.	1 kit

## Related Product List

Code No.	Product Name	Grade	Volume
■ Fish Poison			
165-26141	Palytoxin	F <sup>o</sup> for Biochemistry	100 µg
■ Shellfish Poison			
156-03551	OA · DTX1 Mixture Standard Solution (each 1mg/L Methanol Solution)	F <sup>o</sup> for Food Analysis	2 mL
152-03271	Okadaic Acid	F <sup>o</sup> for Biochemistry	25 µg
158-03273		F <sup>o</sup> for Biochemistry	100 µg
■ Sponge Poison			
038-14453	Calyculin A	F <sup>o</sup> for Biochemistry	10 µg
032-14451		F <sup>o</sup> for Biochemistry	100 µg
132-12081	Mycalolide B	F <sup>o</sup> for Biochemistry	100 µg
193-11831	Stelletamide A Trifluoroacetate	F <sup>o</sup> for Biochemistry	100 µg

\* Toxins may not be available depending on the country. Please check with your distributor before purchasing.

Please check our website for details.

TOP > Analytical Chemistry > Food Analysis > Marine Toxins

<https://labchem-wako.fujifilm.com/us/category/01103.html>



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