

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

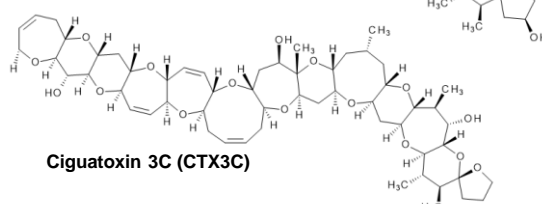
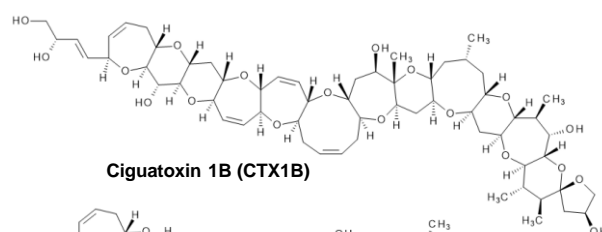
Marine toxins are natural poisons possessed by fish and shellfish and cause food poisoning. Marine toxins are not only found in fish and shellfish, but also in microalgae or marine algae such as marine microorganisms and plankton, which are bio-concentrated by the food chain and cause poisoning in humans 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.

We provide a variety of reagents and kits related to marine toxins.

For Ciguatoxin Analysis

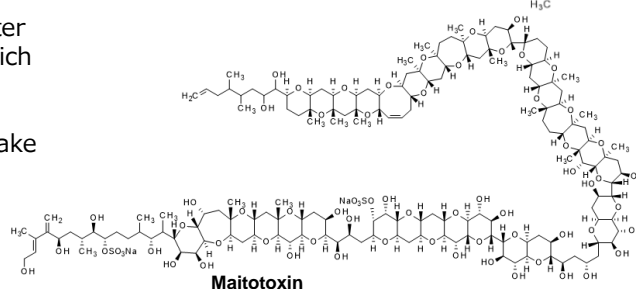
■ Ciguatoxin CTX 1B, CTX 3C

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

Mitotoxin (MTX) is produced by dinoflagellate (*Gambierdiscus toxicus*). And it is named mitotoxin 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 **CSI**

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	Volume
NEW 038-25801	CiguatoxinCTX 1B	F ^o for Biochemistry	100 ng
030-21581	CiguatoxinCTX 3C	F ^o for Biochemistry	100 ng
NEW 131-19011	Maitotoxin	F ^o for Biochemistry	10 µg
382-14341	CTX-ELISA 1B	Ref Cell Science Inc.	1 kit

Related Product List

Code No.	Product Name	Grade	Volume
■ Fish Poison			
165-26141	Palytoxin	F ^o	for Biochemistry 100 µg
206-11071	Tetrodotoxin	Ref	for Biochemistry 1 mg
■ Cyanotoxin			
036-20341	Cylindrospermopsin	F ^o	for Biochemistry 250 µg
136-12241	Microcystin LR	F ^o	for Biochemistry 250 µg
133-12251	Microcystin RR	F ^o	for Biochemistry 250 µg
138-12843	Microcystin YR	F ^o	for Biochemistry 50 µg
134-17041	Microcystin LR-15N10	F ^o	for Biochemistry 10 µg
137-17031	Microcystin RR-15N13	F ^o	for Biochemistry 10 µg
130-17021	Microcystin YR-15N10	F ^o	for Biochemistry 10 µg
■ Shellfish Poison			
042-33671	Dinophysistoxin-1	F ^o	for Biochemistry 100 µg
156-03551	OA • DTX1 Mixture Standard Solution (each 1mg/L Methanol Solution)	F ^o	for Food Analysis 2 mL
152-03271	Okadaic Acid		for Biochemistry 25 µg
158-03273		F ^o	for Biochemistry 100 µg
151-03481	Okadaic Acid Methyl Ester	F ^o	for Biochemistry 100 µg
155-03381	Okadaic Acid Sodium Salt	F ^o	for Biochemistry 100 µg
■ Sponge Poison			
038-14453	Calyculin A		for Biochemistry 10 µg
032-14451		F ^o	for Biochemistry 100 µg
089-10441	Halichlorine	F ^o	for Biochemistry 100 µg
132-12081	Mycalolide B	F ^o	for Biochemistry 100 µg
193-11831	Stelletamide A Trifluoroacetate	F ^o	for Biochemistry 100 µg

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