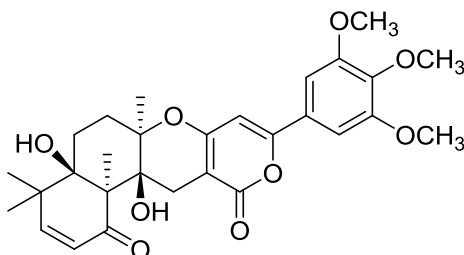


Territrem B

Code No.: **BIA-T1824**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 70407-20-4
Molecular Formula	: C₂₉H₃₄O₉
Molecular Weight	: 526.6
Source	: <i>Aspergillus terreus</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Territrems are tremorgenic mycotoxins first identified from an *Aspergillus terreus* strain by Ling and colleagues at Taiwan National University in 1979. Territrem B is a potent insecticide acting via irreversible inhibition of acetylcholinesterase (AChE). The binding mechanism is very different from typical irreversible AChE inhibitors like neostigmine and the organophosphates.

References

1. Territrems, tremorgenic mycotoxins of *Aspergillus terreus*. Ling K.L. et al., Appl. Env. Microbiol. 1979, 37, 355.
2. Toxicity and anticholinesterase activity of the fungal metabolites territrems to the corn earworm, *Helicoverpa zea*. Dowd P.F. et al., Entomol. Exp. Appl. 1992, 65, 57.
3. Territrem B, a tremorgenic mycotoxin that inhibits acetylcholinesterase with a noncovalent yet irreversible binding mechanism. Jen-Wei Chen J-W. et al., J. Biol. Chem. 1999, 274, 34916.
4. Structures of human acetylcholinesterase bound to dihydrotanshinone I and territrem B show peripheral site flexibility. Cheung J. et al., Med. Chem. Lett. 2013, 4, 1091.