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## DATASHEET

### Verruculogen

## Product overview

Name	Verruculogen
Cat No	HB4120
Purity	>97%
Description	Selective KCa1. 1 channel blocker

## Biological Data

Biological description	Fumitremorgin-type alkaloid. Tremorgenic neurotoxic mycotoxin. Selective blocker of KCa1. 1 (high-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> ; BK; maxi-K) channels. Decreases GABA levels in CNS. Increases spontaneous glutamate and aspartate release. At toxic doses, increases the number and decreases the affinity of DHP receptors in rat cortex. Cell cycle inhibitor at the M phase. Inhibits calmodulin and PKC activity. Has apoptotic effects on human T lymphocytes. Stimulates the growth of seedling roots of buckwheat.
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## Solubility & Handling

Storage instructions	+4°C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

Molecular Weight	511.57
Chemical structure	The chemical structure of Verruculogen is a complex polycyclic compound. It features a tricyclic core with a 1,3-dioxolane ring fused to a pyrrolidine ring, which is further fused to a pyridine ring. The pyridine ring has a methoxy group (-OCH <sub>3</sub> ) at position 4. There are several hydroxyl groups (-OH) and methyl groups (-CH <sub>3</sub> ) distributed throughout the structure, with stereochemistry indicated by wedges and dashes.
Molecular Formula	C <sub>27</sub> H <sub>33</sub> N <sub>3</sub> O <sub>7</sub>
CAS Number	12771-72-1
PubChem identifier	0
SMILES	COc1ccc2c(c1)n3C(OOC(C)(C)CC4N5C(=O)C6CCCN6C(=O)C5(O)C(O)c2c34)C=C(C)C
InChiKey	LRXYHMMJJCTUMY-GWXUGYLUSA-N
Appearance	White to off-white solid