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## DATASHEET

Verruculogen

### Product overview

<b>Name</b>	Verruculogen
<b>Cat No</b>	HB4120
<b>Purity</b>	>97%
<b>Description</b>	Selective K <sub>Ca</sub> 1.1 channel blocker

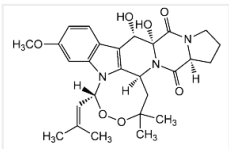
### Biological Data

<b>Biological description</b>	Fumitremorgin-type alkaloid. Tremorgenic neurotoxic mycotoxin. Selective blocker of K <sub>Ca</sub> 1.1 (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

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

### Chemical Data

<b>Molecular Weight</b>	511.57
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>33</sub> N <sub>3</sub> O <sub>7</sub>
<b>CAS Number</b>	12771-72-1
<b>PubChem identifier</b>	0
<b>SMILES</b>	<chem>COc1ccc2c(c1)n3C(OOC(C)(C)CC4N5C(=O)C6CCCN6C(=O)C5(O)C(O)c2c34)C=C(C)C</chem>
<b>InChiKey</b>	LRXYHMMJJCTUMY-GWXUGYLUSA-N
<b>Appearance</b>	White to off-white solid