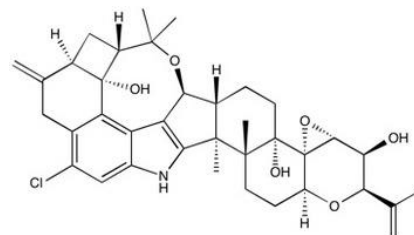


Catalog	Unit
TBI2099 - 1MG	1 mg
TBI2099 - 5MG	5 mg

### Product Details

**Alternate Names:** Tremortin A; NSC354845  
**Molecular Formula:** C<sub>37</sub>H<sub>44</sub>ClNO<sub>6</sub>  
**Formula Weight:** 634.21  
**CAS Number:** 12627-35-9  
**Purity:** >98%  
**Formulation:** Powder  
**Solubility:** Soluble in DMSO (up to 6 mg/ml)  
**Storage:** -20°C  
**Stability:** ≥ 2 years.



### Applications

High conductance Ca activated K<sup>+</sup> channel inhibitor

### Functions

Penitrem A (12627-35-9) is a fungal mycotoxin that acts as a selective, irreversible blocker of the smooth muscle high conductance Ca<sup>2+</sup>-activated K<sup>+</sup> (BK, KCa1.1) channel (100% block at 10 nM).<sup>1</sup> Displays brain neurotoxicity in rats along with dose-dependent convulsions and death.<sup>2</sup> An important tool for studying the role of BK channels in vascular function which is effective in cellular, tissue and in vivo experiments.<sup>3</sup> Inhibits BK channels in inside-out and cell-attached patches, whereas iberiotoxin (considered the gold standard BK channel blocker) does not.<sup>3</sup> May be used to partially ablate Purkinje cells in immature rat cerebellum providing a model for neural stem cell transplantation studies.

### Application Procedures

First dissolved in DMSO (up to 6 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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