

Catalog	Unit
TBI3447- 1MG	1 mg
TBI3447- 5MG	5 mg

### Product Details

**Formal Name:** (13bR)-6,12-Dihydroxy-8,9-bis[(2R)-2-hydroxypropyl]-7,10-dimethoxy-perylo[1,12-def]-1,3-dioxepin-5,11-dione

**Alternate Names:** NSC-153111

**Molecular Formula:** C<sub>29</sub>H<sub>26</sub>O<sub>4</sub>

**Formula Weight:** 534.52

**CAS Number:** 35082-49-6

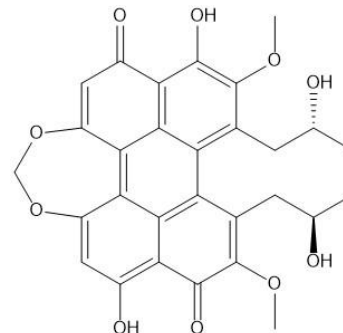
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (10 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

ROS-generating fungal toxin

### Functions

Cercosporin (35082-49-6) is a perylenequinone from the fungus *Cercospora kikuchii*. Upon photo-activation, perylenequinones display almost universal toxicity to a broad variety of organisms. Exposure to visible and near-UV light activates this family of quinones to an excited triplet state that reacts with oxygen to form reactive oxygen species. Displays antiproliferative effects in various tumor cell lines. Selectively inhibits PKC (IC<sub>50</sub> = 0.6-1.3 mM) over PKA and PPK.

### Application Procedures

First dissolved in DMSO (10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

### 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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