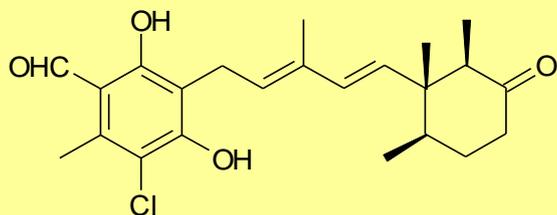


# Ascochlorin

Cat.# BLK-1440

## Structure

**Origin:** Cosmospora sp.**CAS Registry Number:** 26166-39-2**Appearance:** off white solid**Molecular Formula/ Weight:**C<sub>23</sub>H<sub>29</sub>ClO<sub>4</sub>=404.94**Purity:**>95.0% by HPLC**Solubility:** Sol. in 1mg/ml ethanol, methanol, DMSO

## Background Information:

Ascochlorin, a prenylphenol antibiotic, was isolated from *Acremonium egyptiacum*. It is specific inhibitor of the mitochondrial cytochrome bc1 complex. And this compound inhibits MMP-9 gene expression by suppressing activation of the nuclear transcription factor activator protein-1 (AP-1).

## Handling and Storage:

Store at -20°C.

## References:

1. J Antibiot (Tokyo). 1968 Sep;21(9):539-44.
2. J Biol Chem. 2005 Jul 1;280(26):25202-9.
3. Biochim Biophys Acta. 2009 Feb;1787(2):129-33.
4. Biochim Biophys Acta. 2010 Mar;1797(3):360-70.
5. Mitochondrion. 2014 Nov;19 Pt B:261-8.
6. J Antibiot (Tokyo). 2017 Mar;70(3):304-307.

*Manufactured with Cortesy strain from The Kitasato Institute.*