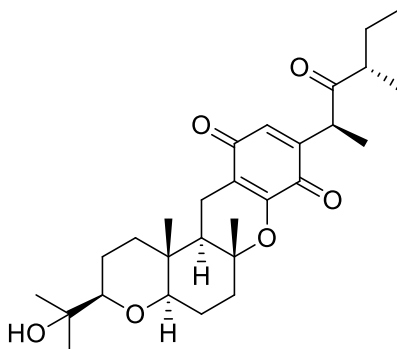


Cochlioquinone B

Code No.: **BIA-C1020**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	:	32450-26-3
Molecular Formula	:	C₂₈H₄₀O₆
Molecular Weight	:	472.6
Source	:	<i>Bipolaris leersia</i>
Appearance	:	Yellow Lyophilisate
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Cochlioquinone B, the minor component of a bioactive pigment isolated from *Bipolaris leersia*, is an NADH-ubiquinone reductase inhibitor and phytotoxic agent inhibiting root growth. It is closely related to Cochlioquinone A which inhibits diacylglycerol acyltransferase and exhibits anti-angiogenic and nematocidal activity. Cochlioquinones have recently been shown to be antagonists of the human chemokine receptor, CCR5, in HIV-1.

References

1. Cochlioquinones and *epi*-cochlioquinones: antagonists of the human chemokine receptor CCR5 from *Bipolaris brizae* and *Stachybotrys chartarum*. Yoganathan K., et al., J. Antibiot., 2004, 57, 59.
2. Cochlioquinone A1, a new anti-angiogenic agent from *Bipolaris zeicola*. Jung H. J. et al., Bioorg. Med. Chem., 2003, 11, 4743.
3. Inhibitory activity of diacylglycerol acyltransferase by cochlioquinones A and A1. Lee H. B. et al., J. Antibiot., 2003, 56, 967.
4. Phytotoxic compounds cochlioquinones are inhibitors of mitochondrial NADH-ubiquinone reductase. Lim C.-H. et al., J. Pesticide Sci., 1996, 21, 213.