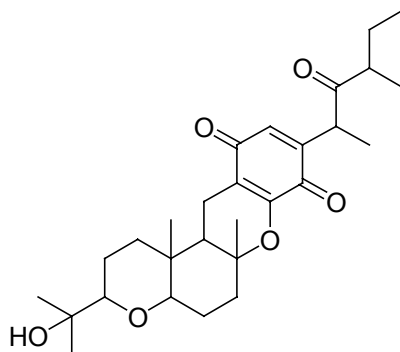


Cochlioquinone B

Code: **BIA-C1020**

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



Synonyms :

Specifications

CAS #	: 32450-26-3
Molecular Formula	: C ₂₈ H ₄₀ O ₆
Molecular Weight	: 472.6
Source	: <i>Bipolaris leersia</i> MST-FP107
Appearance	: Yellow lyophilisate
Purity	: > 99% by HPLC
Long Term Storage	: +4°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

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