

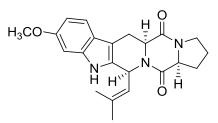
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Fumitremorgin C

## PRODUCT DATA SHEET

Code No.: BIA-F1031

Pack sizes: 0.25 mg, 1 mg



Synonyms

Specifications

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CAS #	: 118974-02-0
Molecular Formula	: C22H25N3O3
Molecular Weight	: 379.5
Source	: Aspergillus fumigatus
Appearance	: Tan Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

## **Application Notes**

Fumitremorgin C is a tremorgenic mycotoxin isolated from Aspergillus fumigatus. Recent research has recognised fumitremorgin C as a potent and specific inhibitor of the breast cancer resistance protein (BCRP/ABCG2) multidrug transporter. It reverses multidrug resistance mediated by BCRP and increases cytotoxicity of several anticancer agents in vitro.

## References

- 1. Potent and specific inhibition of the breast cancer resistance protein multidrug transporter in vitro and in mouse intestine by a novel analogue of fumitremorgin C. Allen J.D. et al., Mol. Cancer Ther. 2002, 1, 417.
- 2. Fumitremorgin C reverses multidrug resistance in cells transfected with the breast cancer resistance protein. Rabindran S.K. et al., Cancer Res. 2000, 60, 47.
- Novel mammalian cell cycle inhibitors, tryprostatins A, B and other diketopiperazines produced by Aspergillus fumigatus. I. Taxonomy, fermentation, isolation and biological properties. Cui C.B. et al., J. Antibiot. 1996, 49, 527.
- 4. Mycotoxins produced by Aspergillus fumigatus species isolated from molded silage. Cole R.J. et al., J. Agric. Food Chem. 1977, 25, 826.

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