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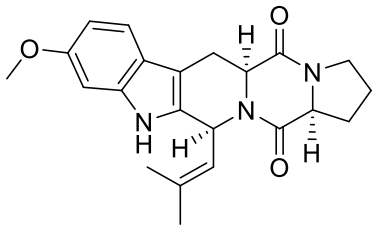
PRODUCT DATA SHEET

Fumitremorgin C

Code No.: **BIA-F1031**

Pack sizes: **0.25 mg, 1 mg**



Synonyms : -

Specifications

CAS #	:	**118974-02-0**
Molecular Formula	:	**$C_{22}H_{25}N_3O_3$**
Molecular Weight	:	**379.5**
Source	:	***Aspergillus fumigatus***
Appearance	:	**Tan Lyophilisate**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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.
3. 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.

For in vitro laboratory use only. Not for human or animal use.

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