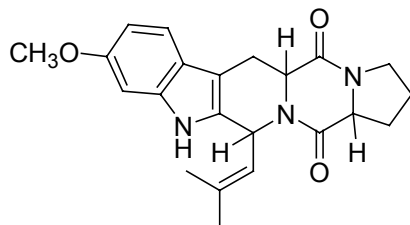


Fumitremorgin C

Code: **BIA-F1031**

Pack sizes: **0.25 mg, 1.0 mg**



Synonyms : **Tryptoquivaline**

Specifications

CAS # : **118974-02-0**
Molecular Formula : **C₂₂H₂₅N₃O₃**
Molecular Weight : **379.5**
Source : ***Aspergillus fumigatus* MST-FP1133**
Appearance : **Tan lyophilisate**
Purity : **> 95% by HPLC**
Long Term Storage : **+4°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

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.