

Product Name:	Fumitremorgin C
Product Number:	F023
CAS Number:	118974-02-0
Molecular Formula:	$C_{22}H_{25}N_3O_3$
Molecular Weight:	379.5
Appearance:	Tan Lyophilisate
Storage Conditions:	-20°C
Description:	<p>Fumitremorgin C is a tremorgenic mycotoxin isolated from <i>Aspergillus fumigatus</i>. It reverses multidrug resistance mediated by BCRP and increases cytotoxicity of several anticancer agents in vitro.</p> <p>Fumitremorgin C is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
Mechanism of Action:	<p>Recent research has recognised fumitremorgin C as a potent and specific inhibitor of the breast cancer resistance protein (BCRP/ABCG2) multidrug transporter.</p>
References:	<p>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. <i>Mol. Cancer Ther.</i> 2002, 1, 417.</p> <p>Fumitremorgin C reverses multidrug resistance in cells transfected with the breast cancer resistance protein. Rabindran S.K. et al. <i>Cancer Res.</i> 2000, 60, 47.</p> <p>Novel mammalian cell cycle inhibitors, tryprostatins A, B and other diketopiperazines produced by <i>Aspergillus fumigatus</i>. I. Taxonomy, fermentation, isolation and biological properties. Cui C.B. et al. <i>J. Antibiot.</i> 1996, 49, 527.</p> <p>Mycotoxins produced by <i>Aspergillus fumigatus</i> species isolated from molded silage. Cole R.J. et al. <i>J. Agric. Food Chem.</i> 1977, 25, 826.</p>