

Product Name:	Questioniomycin A
Product Number:	Q004
CAS Number:	1916-59-2
Molecular Formula:	$C_{12}H_8N_2O_2$
Molecular Weight:	212.2
Appearance:	Red to red brown solid
Storage Conditions:	-20°C
Description:	<p>Questioniomycin A is a phenoxazine produced by several Streptomyces species and some fungi and bacteria. Questioniomycin A is weakly active against bacteria, fungi, plants and tumor cell lines, and inhibits aromatase and sulfatases. More recently, questioniomycin A has been shown to inhibit pulmonary metastasis caused by mouse melanoma cells. Questioniomycin A and related phenoxazines are important dereplication standards in discovery research to eliminate leads due to high amounts of weakly potent actives.</p> <p>Questioniomycin A is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Questioniomycin stimulates cell growth and turnover in vitro, an activity possibly related to their ability to form stable free radicals.</p>
References:	<p>The new antibiotics, questioniomycins A and B. Anzai K. et al. J. Antibiot. 1960, 13, 125.</p> <p>Studies on cell growth stimulating substances of low molecular weight. Imai S. et al. J. Antibiot. 1993, 46, 1232.</p> <p>2-Aminophenoxazine-3-one prevents pulmonary metastasis of mouse B16 melanoma cells in mice. Hongo T. J. Pharmacol. Sci. 2010, 114, 63.</p>