PRODUCT DATA SHEET

Questiomycin A

Synonyms : 2-Amino-3H-phenoxazin-3-one, 2-Aminophenoxazone, AV Toxin C, NSC 94945

Specifications

- **CAS #** : 1916-59-2
- **Molecular Formula** : C\(_{12}\)H\(_8\)N\(_2\)O\(_2\)
- **Molecular Weight** : 212.2
- **Source** : Unidentified fungus
- **Appearance** : Red to red brown solid
- **Purity** : >98% by HPLC
- **Long Term Storage** : -20°C
- **Solubility** : Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Questiomycin A is a phenoxazine produced by several Streptomyces species and some fungi and bacteria. Questiomycin A is weakly active against bacteria, fungi, plants and tumour cell lines, and inhibits aromatase and sulfatases. Questiomycin, like other phenoxazines, stimulates cell growth and turnover in vitro, an activity possibly related to their ability to form stable free radicals. More recently, questiomycin A has been shown to inhibit pulmonary metastasis caused by mouse melanoma cells. Questiomycin A and related phenoxazines are important dereplication standards in discovery research to eliminate leads due to high amounts of weakly potent actives.

References