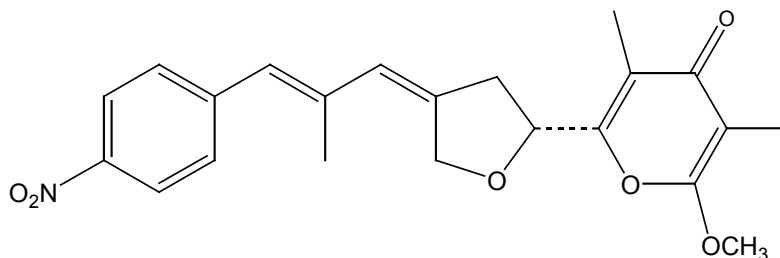


## Aureothin

Code: **BIA-A1009**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Distacin, Distacyne, Mycolutein, Antibiotic 74A", Antibiotic JA 2814K**

## Specifications

CAS # : **2825-00-5**  
Molecular Formula : **C<sub>22</sub>H<sub>23</sub>NO<sub>6</sub>**  
Molecular Weight : **397.4**  
Source : **Streptomyces sp. MST-AS4523**  
Appearance : **Yellow solid**  
Purity : **> 95% by HPLC**  
Long Term Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

## Application Notes

Aureothin, an unusual pyranone metabolite, has broad biological actions including antitumor, antimicrobial and insecticidal activities. Aureothin acts by inhibition of oxidoreductase. More recently Aureothin has been shown to be a potent inhibitor of *Helicobacter pylori*.

## References

1. Gamma-pyrone compounds with selective and potent anti-*Helicobacter pylori* activity. Taniguchi M. et al. *J Antibiot.* **2000**, 53, 844.
2. Two binding sites of inhibitors in NADH: ubiquinone oxidoreductase (complex I). Relationship of one site with the ubiquinone-binding site of bacterial glucose:ubiquinone oxidoreductase. Friedrich T. et al. *Eur J Biochem.* **1994**, 219, 691.