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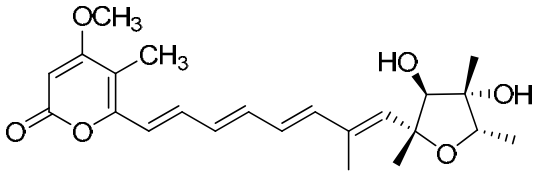
PRODUCT DATA SHEET

Citreoviridin

Code: **BIA-C1241**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Citreoviridin A**

Specifications

CAS #	:	**25425-12-1**
Molecular Formula	:	**$C_{23}H_{30}O_6$**
Molecular Weight	:	**412.0**
Source	:	***Penicillium* sp.**
Appearance	:	**Yellow powder**
Purity	:	**> 97% by HPLC**
Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Citreoviridin is the dominant analogue of a family a tetraene mycotoxins with potent neurotoxic effects, produced by several species of the genera *Aspergillus* and *Penicillium*. Citreoviridins act as inhibitors of mitochondrial ATPase and are a causative agent of cardiac beriberi.

References

1. Citreoviridins from *Aspergillus terreus*. Franck B. & Gehrken H-P. Angew. Chem. Int. Ed. Engl. 1980, 19, 461.
2. Isolation of citreoviridin from *Penicillium charlesii* cultures and molded pecan fragments. Cole R. J. et al. Appl. Environ. Microbiol. 1981, 42, 677.
3. Citreoviridin, a specific inhibitor of the mitochondrial adenosine triphosphatase. Linnett P. E. et al. Biochem. J. 1978, 170, 503.
4. Interaction of *Escherichia coli* adenosine triphosphatase with aurovertin and citreoviridin: inhibition and fluorescence studies. Satre M. et al. J. Bacteriol. 1980, 142, 768.
5. Binding of citreoviridin to the beta subunit of the yeast F1-ATPase. Gause E. M. et al. J. Biol. Chem.1981, 256, 557.

Building C, 28-54 Percival Road, Smithfield NSW 2164, AUSTRALIA
Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com