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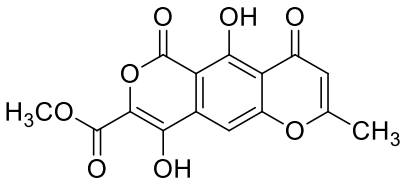
PRODUCT DATA SHEET

Lateropyrone

Code No.: **BIA-L1128**

Pack sizes: **5 mg, 25 mg**



Synonyms : Avenacein Y, Antibiotic Y

Specifications

CAS #	:	**93752-78-4**
Molecular Formula	:	**$C_{15}H_{10}O_8$**
Molecular Weight	:	**318.2**
Source	:	***Fusarium* sp.**
Appearance	:	**Tan solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.**

Application Notes

Lateropyrone is an unusual heterocyclic metabolite isolated from Fusarium avenaceum with antibacterial and antifungal activity. The metabolite was independently characterised as Antibiotic Y and found to be an important metabolite marker for strains of F. avenaceum. Lack of availability has hitherto restricted a more intensive investigation of this metabolite.

References

1. Pyrones. X. Lateropyrone, a new antibiotic from the fungus Fusarium lateritium Nees. Bushnell, G.W. et al., Can. J. Chem., 1984, 62, 2101.
2. Structural elucidation of an antibiotic from Fusarium avenaceum Fries Sacc.; an amended structure for lateropyrone. Gorst-Allman, C.P. et al., S. Afr. J. Chem., 1986, 39, 116.
3. Multiple regression analysis as a tool for the identification of relations between semi-quantitative LC-MS data and cytotoxicity of extracts of the fungus Fusarium avenaceum (syn. F. arthrosporioides). Uhlig S. et al., Toxicon. 2006, 48, 567.

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