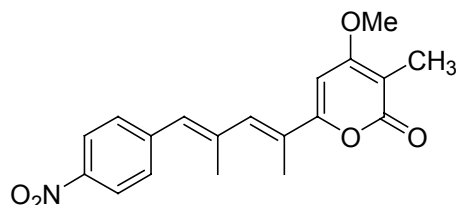


Luteoreticulin

Code: **BIA-L1129**

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



Synonyms : **Griseulin**

Specifications

CAS # : **22388-89-2**
Molecular Formula : **C₁₉H₁₉NO₅**
Molecular Weight : **341.4**
Source : ***Streptomyces* sp. MST-AS4782**
Appearance : **Pale yellow solid**
Purity : **> 99% by HPLC**
Long Term Storage : **-20°C**
Solubility : **DMSO and DMF, partially soluble in methanol and ethanol while poorly soluble in water**

Application Notes

Luteoreticulin is a rare nitrophenyl pyranone closely related to aureothin, neo-aureothin and its unusual photoisomers Antibiotics SNF4435C and D. Metabolites within this class have been shown to be potent antitumor agents with pronounced immunosuppressive activity and more, recently, the ability to reverse multi-drug resistance. The lack of availability of luteoreticulin has hitherto restricted a more intensive investigation of this interesting metabolite with publications relating only to the metabolite's isolation and chemistry.

References

1. The structure of luteoreticulin, a nitro-containing metabolite of *Streptomyces luteoreticuli*. Koyama Y. et al. *Tetrahedron Lett.* **1969**, 5, 355.
2. High-performance liquid chromatography comparison of supercritical-fluid extraction and solvent extraction of microbial fermentation products. Cocks S. et al. *J. Chromatogr A.* **1995**, 697, 115.
3. Reversal of multidrug resistance by novel nitrophenyl pyrones, SNF4435C and D. Kurosawa K. *Jpn. J. Cancer Res.* **2001**, 92, 1235.