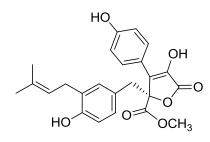


Butyrolactone I

PRODUCT DATA SHEET

Code No.: BIA-B1406

Pack sizes: 1 mg, 5 mg



Synonyms

Olomoucin

Specifications		
CAS #	:	87414-49-1
Molecular Formula	:	C ₂₄ H ₂₄ O ₇
Molecular Weight	:	424.5
Source	:	Aspergillus sp.
Appearance	:	Light yellow solid
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Butyrolactone I is one of a family of three butyrolactones isolated from Aspergillus fumigatus, first reported in 1983. Butyrolactone I exhibits antitumor activity, inhibiting the cell cycle at the G1/S and G2/M transitions. Butyrolactone I is a selective inhibitor of cyclin-dependent kinases CDK1/cyclin B, CDK2 and CDK5, and is an important bioprobe for understanding the cellular roles of CDKs.

References

- 1. Metabolic products of Aspergillus terreus. IX. Biosynthesis of butyrolactone derivatives isolated from strains IFO 8835 and 4100. Nitta K. et al. Chem. Pharm. Bull. 1983, 31, 1528.
- Butyrolactone I induces cyclin B1 and causes G2/M arrest and skipping of mitosis in human prostate cell lines. Suzuki M. et al. Cancer Lett. 1999, 138, 121.
- 3. Butyrolactone I, a selective inhibitor of cdk2 and cdc2 kinase. Kitagawa M. et al. Oncogene 1993, 8, 2425.

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