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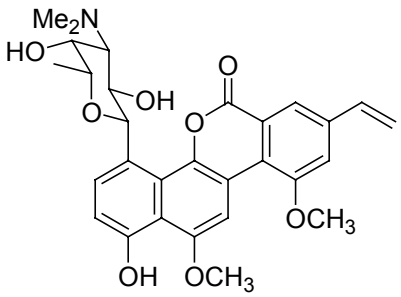
PRODUCT DATA SHEET

O-Deacetyl-ravidomycin

Code: **BIA-R1074**

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



Synonyms : **Antibiotic AY 26623**

Specifications

CAS #	:	**88580-27-2**
Molecular Formula	:	**$C_{29}H_{31}NO_8$**
Molecular Weight	:	**521.6**
Source	:	***Streptomyces* sp. MST-AS5883**
Appearance	:	**Yellow Solid**
Purity	:	**> 95% by HPLC**
Long Term Storage	:	**+4°C**
Solubility	:	**Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol.**

Application Notes

O-deacetyl-ravidomycin is the more active and stable analogue of the ravidomycin complex produced by *Streptomyces ravidus*. The metabolite shows potent, light dependent antitumour activity. Microbial Screening Technologies in-house bioassays detected weak antibacterial and antifungal activity. O-Deacetyl-ravidomycin, like the related gilvocarcins and chrysomycins, is thought to act as a topoisomerase II inhibitor.

References

1. New ravidomycin analogues, FE35A and FE35B, apoptosis inducers produced by *Streptomyces rochei*. Yamashita N. et al. *J. Antibiot.* **1998**, 51, 1105.
2. Biochemical characterisation of elsamicin and other coumarin-related antitumour agents as potent inhibitors of human topoisomerase II. Lorico A. et al. *Eur. J. Cancer* **1993**, *29A*, 1985.
3. Light-dependent activity of the antitumor antibiotics ravidomycin and desacetylravidomycin. Greenstein M. et al. *Antimicrob. Agents Chemother.* **1986**, 29, 861.
4. Chemical modification of ravidomycin and evaluation of biological activities of its derivatives. Rakhit S. et al. *Antimicrob. Agents Chemother.* **1986**, 29, 861.

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