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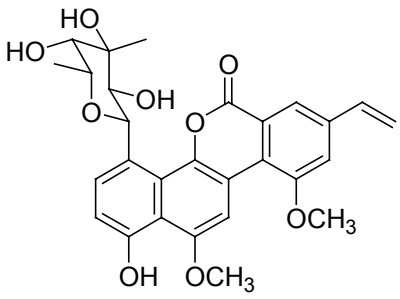
PRODUCT DATA SHEET

Chrysomycin A

Code: **BIA-C1017**

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



Synonyms : **Chrysomycin V, Albacarcin V, Virenomycin V,**

Specifications

CAS #	:	**82196-88-1**
Molecular Formula	:	**$C_{28}H_{28}O_9$**
Molecular Weight	:	**508.5**
Source	:	***Streptomyces* sp. MST-AS5361**
Appearance	:	**Yellow lyophilisate**
Purity	:	**> 99% by HPLC**
Long Term Storage	:	**+4°C**
Solubility	:	**Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol.**

Application Notes

Chrysomycin A is the major analogue in a complex of C-glycoside antitumor actives isolated from Streptomyces. Chrysomycin A, with a vinyl group in the 8-position, is the most potent analogue of the complex. It is thought to act as an inhibitor of the catalytic activity of human topoisomerase II. Chrysomyin A has a potent antibacterial, antifungal, antiviral and antitumor profile. More recent research on related metabolites, the gilvocarcins, suggests that chrysomycins may act as photoactivated crosslinkers of DNA to histones.

References

1. Histone H3 and heat shock protein GRP78 are selectively cross-linked to DNA by photoactivated gilvocarcin V in human fibroblasts. Matsumoto A. et al. *Cancer Res*. **2000**, 60, 3921.
2. Chrysomycin derivative compounds and use as antitumor agents. US Patent *6,030,951*, **2000**.
3. 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.

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