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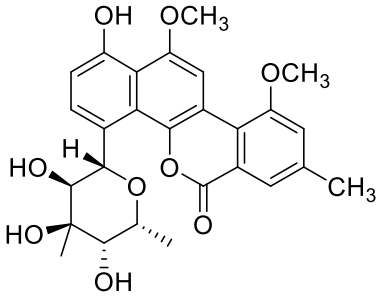
PRODUCT DATA SHEET

Chrysomycin B

Code No.: **BIA-C1018**

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



Synonyms : Chrysomycin M, Virenomycin M, Albacarcin M

Specifications

CAS #	:	**83852-56-6**
Molecular Formula	:	**$C_{27}H_{28}O_9$**
Molecular Weight	:	**496.5**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow crystals**
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

Chrysomycin B is a minor analogue in a complex of C-glycoside antitumor actives isolated from Streptomyces. Chrysomycin B, containing a methyl group in the 8-position, is less active than its vinyl analogue (Chrysomycin A), albeit still a potent antitumor active and an inhibitor of the catalytic activity of human topoisomerase II. More recent research on related metabolites, the gilvocarcins, suggests that chrysomycins may act as photoactivated cross-linkers of DNA to histones.

References

1. Biochemical characterisation of elsamicin and other coumarin-related antitumor agents as potent inhibitors of human topoisomerase II. Lorico A. et al., Eur. J. Cancer. 1993, 29A, 1985.
2. Chrysomycin derivative compounds and use as antitumor agents. US Patent 6,030,951, 2000.
3. 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.

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