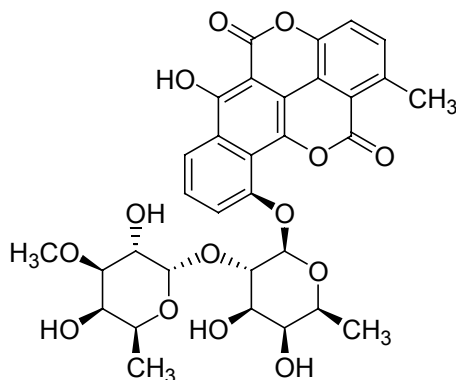


## Chartreusin

Code: **BIA-C1124**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Lambdamycin, NSC 5159, Antibiotic 747, Antibiotic 1293, Antibiotic X465A, Antibiotic G 261A**

## Specifications

CAS # : **6377-18-0**  
Molecular Formula : **C<sub>32</sub>H<sub>32</sub>O<sub>14</sub>**  
Molecular Weight : **640.6**  
Source : ***Streptomyces* sp. MST-AS5556**  
Appearance : **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

Chartreusin is an antitumor antibiotic that binds to GC-rich tracts in DNA, with a clear preference for B-DNA over Z-DNA. It inhibits RNA synthesis and causes single-strand scission of DNA via the formation of free radicals. Chartreusin is also potent inhibitor of topoisomerase II.

## References

1. Chartreusin, a new antibiotic produced by *Streptomyces chartreusis*, a new species. Leach, B.E. et al., *J.Am.Chem.Soc.* **1953**, 75, 4011.
2. Biochemical characterisation of elsamicin and other coumarin-related antitumor agents as potent inhibitors of topoisomerase II. Lorico A. and Long B.H. *Eur. J. Cancer* **1993**, 14, 1985.
3. Chartreusin, elsamicin A and related anti-cancer antibiotics. Portugal J. *Curr. Med. Chem. Anticancer Agents.* **2003**, 3, 411.