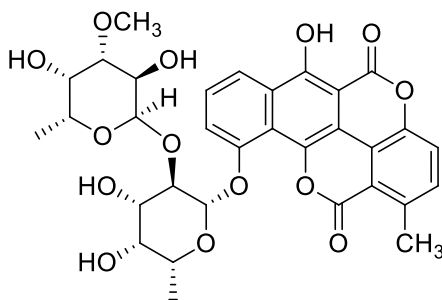


## Chartreusin

Code No.: **BIA-C1124**

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



Synonyms : Lambdamycin, NSC 5159, 747, 1293, X465A, 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            | : <i>Streptomyces</i> sp.   |
| Appearance        | : Yellow solid  |
| Purity            | : >95% by HPLC  |
| Long Term Storage | : -20°C   |
| Solubility        | : Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility. |

## 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 a 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.