

Product Name:	Chartreusin
Product Number:	C167
CAS Number:	6377-18-0
Molecular Formula:	$C_{32}H_{32}O_{14}$
Molecular Weight:	640.6
Appearance:	Yellow solid
Storage Conditions:	-20°C
Description:	<p>Chartreusin is an antitumor antibiotic that binds to GC-rich tracts in DNA, with a clear preference for B-DNA over Z-DNA. Chartreusin is also a potent inhibitor of topoisomerase II.</p> <p>Chartreusin is soluble ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Chartreusin inhibits RNA synthesis and causes single-strand scission of DNA via the formation of free radicals.</p>
References:	<p>Chartreusin, a new antibiotic produced by <i>Streptomyces chartreusis</i>, a new species. Leach, B.E. et al. , J.Am.Chem.Soc. 1953, 75, 4011.</p> <p>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.</p> <p>Chartreusin, elsamicin A and related anti-cancer antibiotics. Portugal J. Curr. Med. Chem. Anticancer Agents. 2003, 3, 411.</p>