

Product Name:	Chrysomycin A
Product Number:	C153
CAS Number:	82196-88-1
Molecular Formula:	$C_{28}H_{28}O_9$
Molecular Weight:	508.5
Appearance:	Yellow Lyophilisate
Storage Conditions:	-20°C
Description:	<p>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, and is thought to act as an inhibitor of the catalytic activity of human topoisomerase II. Chrysomycin A has a potent antibacterial, antifungal, antiviral and antitumor profile.</p> <p>Chrysomycin A is soluble in DMF and DMSO and is moderately soluble in methanol or ethanol.</p>
Mechanism of Action:	<p>The mechanism of action of chrysomycins is not fully understood; however, recent research suggests chrysomycins may act as photoactivated cross-linkers of DNA to histones.</p>
References:	<p>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</p> <p>Chrysomycin derivative compounds and use as antitumor agents. US Patent 6,030,951, 2000.</p> <p>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.</p>