

<b>Product Name:</b>	Chrysomycin B
<b>Product Number:</b>	C154
<b>CAS Number:</b>	83852-56-6
<b>Molecular Formula:</b>	$C_{27}H_{28}O_9$
<b>Molecular Weight:</b>	496.5
<b>Appearance:</b>	Yellow crystals
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>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.</p> <p>Chrysomycin B is soluble in DMF and DMSO and is moderately soluble in methanol or ethanol.</p>
<b>Mechanism of Action:</b>	<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>
<b>References:</b>	<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>