

Product Name:	Sancycline hydrochloride
Product Number:	S076
CAS Number:	6625-20-3
Molecular Formula:	$C_{21}H_{23}ClN_2O_7$
Molecular Weight:	450.9
Appearance:	Yellow to orange solid
Storage Conditions:	-20°C
Description:	<p>Sancycline hydrochloride is the hydrochloride salt of a rare semi-synthetic tetracycline prepared by hydrogenolysis of the chloro and benzylic hydroxy moieties of declomycin, first reported in 1962. As the simplest of the early tetracyclines, sancycline was the first to be totally synthesised by Conover and co-workers.</p> <p>Sancycline hydrochloride is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Sancycline acts by reversibly binding to the 30S ribosomal subunit and inhibiting protein translation by blocking entry of aminoacyl-tRNA into the ribosome A site.</p>
References:	<p>Process for the catalytic reduction of 6-hydroxynaphthacenes. McCormick J.R.D. & Jensen E.R. 1962 US Patent 3,019,260.</p> <p>The total synthesis of 6-demethyl-6-deoxytetracycline. Conover L.H. et al. J. Am. Chem. Soc. 1962, 84, 3222.</p>