

Product Name:	Demeclocycline
Product Number:	D031
CAS Number:	127-33-3
Molecular Formula:	$C_{21}H_{21}ClN_2O_8$
Molecular Weight:	468.9
Appearance:	Yellow to orange solid
Storage Conditions:	-20°C
Description:	<p>Demeclocycline, a chlortetracycline analogue produced by a mutagenised strain of <i>Streptomyces aureofaciens</i>, was first isolated in 1957. Like all tetracyclines, demeclocycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal subunits, blocking protein synthesis. Demeclocycline has been extensively cited in the literature with over 800 references relating almost exclusively to in vivo use.</p> <p>Demeclocycline is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>A new family of antibiotics: the demethyltetracyclines. McCormack J.R.D. et al. J. Am. Chem. Soc. 1957, 79, 4561.</p> <p>Structure-activity relationships in the tetracycline series. Blackwood R.K. & English A.R. In Structure-activity relationships among the semisynthetic antibiotics. (Ed. Perlman D. Academic Press, London) 1977, 397.</p>