

Product Name:	Meclocycline sulfosalicylate
Product Number:	M043
CAS Number:	73816-42-9
Molecular Formula:	$C_{29}H_{27}ClN_2O_{14}S$
Molecular Weight:	695.1
Appearance:	Yellow to orange solid
Storage Conditions:	-20°C
Description:	<p>Meclocycline sulfosalicylate is a salt prepared from demeclocycline taking advantage of the basic dimethylamino group which protonates and readily forms a salt in solution with 2-hydroxy-3-carboxybenzenesulphonic acid. Like all tetracyclines, meclocycline shows broad spectrum antibacterial and antiprotozoan activity. The unusual complex counter-ion is likely to add an antiseptic component to the use of the compound for skin infections.</p> <p>Meclocycline sulfosalicylate is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</p>
Mechanism of Action:	Like all tetracyclines acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis.
References:	<p>6-Methylenetetracyclines. I A new class of tetracycline antibiotics. Blackwood R.K. et al. J. Am. Chem. Soc. 1961, 83, 2773.</p> <p>6-Methylenetetracyclines. III. Preparation and Properties. Blackwood R.K. et al. J. Am. Chem. Soc. 1963, 85, 3943.</p> <p>Meclocycline sulfosalicylate. Topical antibiotic agent for the treatment of acne vulgaris. Knutson D. D. Cutis. 1981, 27, 203.</p>