Product Name: Meclocycline sulfosalicylate
Product Number: M043
CAS Number: 73816-42-9
Molecular Formula: \( \text{C}_{29}\text{H}_{27}\text{ClN}_{2}\text{O}_{14}\text{S} \)
Molecular Weight: 695.1
Appearance: Yellow to orange solid
Storage Conditions: -20°C
Description: 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, mecloxycline 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.

Meclocycline sulfosalicylate is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Mechanism of Action: Like all tetracyclines acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis.

References:
