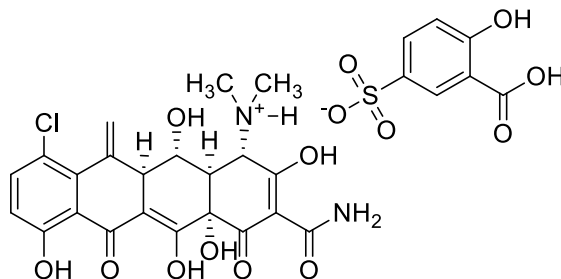


## Meclocycline sulfosalicylate

Code No.: **BIA-M1465**

Pack sizes: **5 mg, 25 mg**



Synonyms :

### Specifications

CAS #	: <b>73816-42-9</b>
Molecular Formula	: <b>C<sub>29</sub>H<sub>27</sub>ClN<sub>2</sub>O<sub>14</sub>S</b>
Molecular Weight	: <b>695.1</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>Yellow to orange solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</b>

### Application Notes

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-carboxybenenesulphonic acid. Like all tetracyclines, meclocycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis. The unusual complex counter-ion is likely to add an antiseptic component to the use of the compound for skin infections.

### References

1. 6-Methylenetetraacyclines. I A new class of tetracycline antibiotics. Blackwood R.K. et al., J. Am. Chem. Soc. 1961, 83, 2773.
2. 6-Methylenetetraacyclines. III. Preparation and Properties. Blackwood R.K. et al., J. Am. Chem. Soc. 1963, 85, 3943.
3. Meclocycline sulfosalicylate. Topical antibiotic agent for the treatment of acne vulgaris. Knutson D. D. Cutis. 1981, 27, 203.