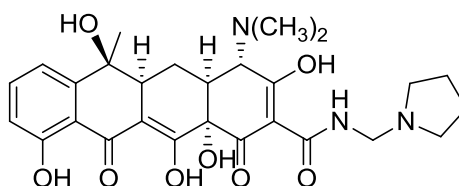


## Rolitetracycline

Code No.: **BIA-R1460**

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



Synonyms : Abricycline, Pyrrolidinylmethyltetracycline, SQ 15659, Transcycline, Velacycline

### Specifications

CAS #	: <b>751-97-3</b>
Molecular Formula	: <b>C<sub>27</sub>H<sub>33</sub>N<sub>3</sub>O<sub>8</sub></b>
Molecular Weight	: <b>527.6</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>Yellow to orange solid</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in water. Partially soluble in ethanol and methanol.</b>

### Application Notes

Rolitetracycline, launched in the late 1950s, was the first of the semi-synthetic tetracyclines. Rolitetracycline is formed by a Mannich condensation of formaldehyde and pyrrolidine with tetracycline. Rolitetracycline is a pro-drug of tetracycline, in which the pyrrolidine moiety improves bioavailability compared with tetracycline. Rolitetracycline has broad spectrum Gram positive activity in vivo, but pH instability limits use to parenteral administration. The intrinsic in vitro activity and SARs for this region of the tetracycline molecule have not been extensively investigated.

### References

1. Mannich bases of tetracycline antibiotics. Cheney L.C. et al. 1963 US Patent 3,104,240.

Updated: 2 December 2014