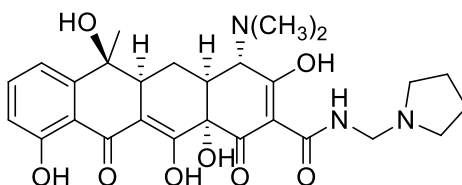


Rolitetraacycline

Code No.: **BIA-R1460**

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



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

Specifications

CAS #	: 751-97-3
Molecular Formula	: C₂₇H₃₃N₃O₈
Molecular Weight	: 527.6
Source	: Semi-synthetic
Appearance	: Yellow to orange solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in water. Partially soluble in ethanol and methanol.

Application Notes

Rolitetraacycline, launched in the late 1950s, was the first of the semi-synthetic tetracyclines. Rolitetraacycline is formed by a Mannich condensation of formaldehyde and pyrrolidine with tetracycline. Rolitetraacycline is a pro-drug of tetracycline, in which the pyrrolidine moiety improves bioavailability compared with tetracycline. Rolitetraacycline 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.