
Product Data Sheet

Product Name: Omadacycline mesylate

Cat. No.: GC36804

Chemical Properties

Cas. No. 1196800-40-4

SMILES CS(=O)(O)=O.O=C(C(C1=O)=C(O)[C@@H])(N(C)C)[C@]2([H])C[C@]3([H])CC4=C(C(C3=C(O)[C@@]21O)=O)C(O)=C(CNCC(C)(C)C)=C4N(C)C)N

Formula C₃₀H₄₄N₄O₁₀S M.Wt 652.76

Solubility Soluble in DMSO Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Omadacycline is an aminomethylcycline antibiotic.¹ It is active against tetracycline-susceptible and -resistant strains of *S. aureus*, *E. faecalis*, *E. faecium*, *S. pneumoniae*, and *E. coli*, as well as β-hemolytic streptococci (MICs = ≤0.06-2 μg/ml). Omadacycline increases survival in mouse models of systemic infection with tetracycline-sensitive and -resistant strains of *S. pneumoniae*, *S. aureus*, or *E. coli* (ED₅₀s = 0.3-3.34 mg/kg).

Formulations containing omadacycline have been used in the treatment of community-acquired bacterial pneumonia (CABP) and acute bacterial skin and skin structure infections (ABSSSI).

1. Macone, A.B., Caruso, B.K., Leahy, R.G., et al. In vitro and in vivo antibacterial activities of omadacycline, a novel aminomethylcycline. *Antimicrob. Agents Chemother.* 58(2):1127-1135(2014)

Caution: Product has not been fully validated for medical applications. For research use only.

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