

Product Data Sheet

Product Name: Quinaldopeptin

Cat. No.: GC44798

Chemical Properties

Cas. No. 130743-07-6

SMILES O=C(CN(C)C(CNC([C@@]1([H])N(C([C@@](NC(C2=NC(C=CC=C3)=C3C=C2O)=O)([H])[C@H](C)NC([C@@]4([H])N5CCCC4)=O)=O)CCCC1)=O)=O)N(CCCC6)[C@]6([H])C(N[C@@H](C)[C@](NC(C7=NC(C=CC=C8)=C8C=C7O)=O)([H])C(N9CCCC[C@@]9([H])C(NCC(N(C)CC5=O)=O)=O)=O)=O

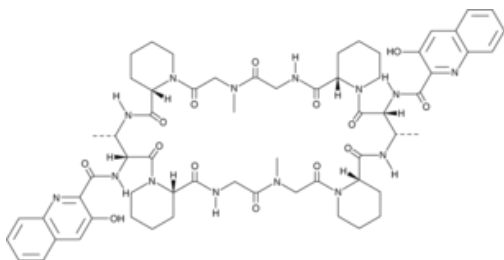
Formula C62H78N14O14 M.Wt 1243.4

Solubility DMF: soluble, DMSO: Storage Store at -20°C
soluble, Ethanol: slightly
soluble, Methanol: slightly soluble

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

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

Structure



Background

Quinaldopeptin is a quinomycin antibiotic. It is active against a variety of bacteria, including *S. pyogenes*, *S. aureus*, *C. perfringens*, *S. faecalis*, *E. coli*, and *K. pneumoniae* (MICs = 0.2, 0.4, 0.8, 1.6, 3.1 and 6.3 µg/ml, respectively). It is cytotoxic to B16/F10 and Moser cells (IC50s = 0.0008 and 0.04 µg/ml, respectively) and increases survival in a P388 leukemia mouse model. Quinaldopeptin is a bis-intercalator depsipeptide (NPBID) that binds to and intercalates into DNA (Kd = 32 nM).

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

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