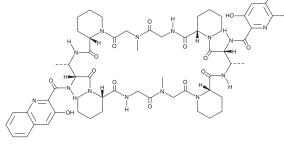
PRODUCT INFORMAT



Quinaldopeptin

Item No. 28167

CAS Registry No.:	130743-07-6
MF:	C ₆₂ H ₇₈ N ₁₄ O ₁₄
FW:	1,243.4
Purity:	≥95%
Supplied as:	A powder
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Quinaldopeptin is supplied as a powder. A stock solution may be made by dissolving the quinaldopeptin in the solvent of choice. Quinaldopeptin is soluble in organic solvents such as methanol, ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Quinaldopeptin is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

quinomycin antibiotic.¹ It is active variety Quinaldopeptin is against а а 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 $(IC_{50}s = 0.0008 \text{ and } 0.04 \mu g/ml, respectively)$ and increases survival in a P388 leukemia mouse model. Quinaldopeptin is a bis-intercalator depsipeptide (NPBID) that binds to and intercalates into DNA $(K_d = 32 \text{ nM}).^2$

References

- 1. Toda, S., Sugawara, K., Ohbayashi, M., et al. Quinaldopeptin, a novel antibiotic of the quinomycin family. J. Antibiot. (Tokyo) 43(7), 796-808 (1990).
- 2. Ratnayake, A.S., Chang, L.-P., Tumey, L.N., et al. Natural product bis-intercalator depsipeptides as a new class of payloads for antibody-drug conjugates. Bioconjug. Chem. 30(1), 200-209 (2019).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

uyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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