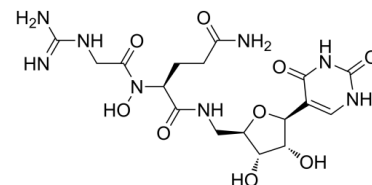


Data Sheet

Product Name:	Pseudouridimycin
Cat. No.:	CS-0092613
CAS No.:	1566586-52-4
Molecular Formula:	C ₁₇ H ₂₆ N ₈ O ₉
Molecular Weight:	486.44
Target:	Antibiotic; Bacterial; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Pseudouridimycin (PUM), an antibiotic, is a selective bacterial **RNA polymerase (RNAP)** inhibitor. Pseudouridimycin is a C-nucleoside analogue that is effective against both Gram-negative and Gram-positive bacteria^[1].

References:

[1]. Rosenqvist P, et al. Characterization of C-nucleoside Antimicrobials from Streptomyces albus DSM 40763: Strepturidin is Pseudouridimycin. Sci Rep. 2019 Jun 20;9(1):8935.

CAIndexNames:

2,4(1H,3H)-Pyrimidinedione, 5-[5-[[N-(aminoiminomethyl)glycyl-N2-hydroxy-L-glutaminy]]amino]-5-deoxy-β-D-ribofuranosyl]-

SMILES:

O=C1NC(C([C@H]2[C@@H]([C@@H]([C@@H](CNC([C@H](CCC(N)=O)N(C(CNC(N)=N)=O)O)=O)O2)O)O)=CN1)=O

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

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