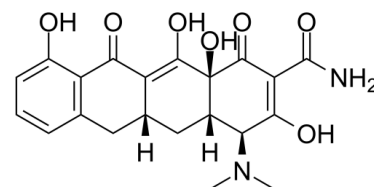


Data Sheet

Product Name:	Sancycline
Cat. No.:	CS-5602
CAS No.:	808-26-4
Molecular Formula:	C ₂₁ H ₂₂ N ₂ O ₇
Molecular Weight:	414.41
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 10 mg/mL (24.13 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Sancycline is a rare semi-synthetic tetracycline prepared by hydrogenolysis of the chloro and benzylic hydroxy moieties of Declomycin. Target: Like other tetracyclines, sancycline acts by reversibly binding to the 30S ribosomal subunit and inhibiting protein translation by blocking entry of aminoacyl-tRNA into the ribosome A site.

CAIndexNames:

2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-1,11-dioxo-, (4S,4aS,5aR,12aS)-

SMILES:

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)=CC=C4)N

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

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