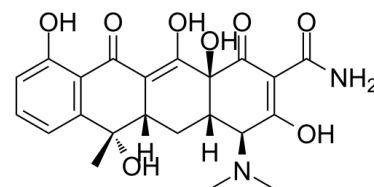


Data Sheet

Product Name:	Tetracycline
Cat. No.:	CS-8188
CAS No.:	60-54-8
Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₈
Molecular Weight:	444.43
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 125 mg/mL (281.26 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Tetracycline is a broad-spectrum antibiotic, exhibiting activity against a wide range of gram-positive and gram-negative bacteria. IC₅₀ & Target: Bacterial^[1]

References:

[1]. Chopra I, et al. Tetracycline antibiotics: mode of action, applications, molecular biology, and epidemiology of bacterial resistance. Microbiol Mol Biol Rev. 2001 Jun;65(2):232-60.

CAIndexNames:

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

SMILES:

O=C(C(C1=O)=C(O)[C@@H](N(C)C)[C@]2([H])C[C@]3([H])[C@](C)(O)C4=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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