

Product Name	: Doxycycline
Synonyms	: —
Cat No.	: M15054
CAS Number	: 564-25-0
Molecular Formula	: C ₂₂ H ₂₄ N ₂ O ₈
Formula Weight	: 444.44
Chemical Name	: 2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, (4S,4aR,5S,5aR,6R,12aS)-
Description	: Doxycycline is a synthetic tetracycline derivative with similar antimicrobial activity.
Pathway	: Microbiology/Virology
Target	: ribosome
Receptor	: 16S ribosome; 30S ribosome
Solubility	: Water: 630 mg/L
SMILES	: <chem>O=C(C(C1=O)=C(O)[C@@H](N(C)C)[C@]2([H])[C@@H](O)[C@]3([H])[C@@H](C)C4=C(C(C3=C(O)[C@@]21O)=O)C(O)=CC=C4)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Griffin MO, et al. Am J Physiol Cell Physiol. 2010 Sep;299(3):C539-48.