Overview

Product name: Doxycycline monohydrate, Matrix metalloprotease (MMP) inhibitor

Description: Cell-permeable antibiotic. MMP inhibitor.

Biological description: Cell-permeable antibiotic. MMP inhibitor (IC$_{50}$ values are 18 and 280 μM at MMP-8 and MMP-1 respectively). Oxytetracycline (ab143429) derivative. Shows anti-angiogenesis effects. Orally active.

Purity: > 97%

CAS Number: 17086-28-1

Chemical structure:

![Chemical structure diagram]

Chemical name: (4S,4aR,5S,5aR,6R,12aR)-4-(Dimethylamino)-1,5,10,11,12a-pentahydroxy-6-methyl-3,12-dioxo-4a,5,5a,6-tetrahydro-4H-tetracene-2-carboxamide monohydrate

Molecular weight: 462.45

Molecular formula: C$_{22}$H$_{24}$N$_{2}$O$_{8}$.H$_{2}$O

PubChem identifier: 54684461

Storage instructions: Store at Room Temperature. The product can be stored for up to 12 months.

Solubility overview: Soluble in ethanol to 2 mg/ml

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: CC1C2(C3C(C(=O)O)C(=C(C(=O)C2=C(C4=C1C=CC=C4O)O)O)C(=O)N)N(C)C)O.O

Source: Synthetic
Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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- Replacement or refund for products not performing as stated on the datasheet
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