Product datasheet
Heliquinomycin ab144268

Overview

Product name
Heliquinomycin

Description
Antibiotic agent. DNA helicase inhibitor.

Biological description
Antibiotic agent. DNA helicase inhibitor (IC\textsubscript{50} values are 4.3 and 2.5 μM for DNA helicase B and MCM4/6/7 helicase respectively). Inhibits DNA replication (IC\textsubscript{50} values are 1 - 4 μM). Weak topoisomerase I and II inhibitor. Inhibits DNA and RNA synthesis. Does not inhibit protein synthesis. Induces G2/M cell cycle arrest. Shows antibacterial effects. Inhibits cancer cell line growth (IC\textsubscript{50} values are 1.4 - 4 μM).

Purity
> 80%

Properties

Chemical name
Methyl (2R,3R,3'R)-3,4',9',10-tetrahydroxy-3'-(5-hydroxy-4-methoxy-6-methylloxan-2-yl)oxy-7'-methoxy-5',8',9-trioxospiro[3,4-dihydropyrano[4,3-g]chromene-2,2'-3H-benzo[f][1]benzofuran]-7-carboxylate

Molecular weight
698.58

Chemical structure

![Chemical structure diagram]

Molecular formula
C\textsubscript{33}H\textsubscript{30}O\textsubscript{17}

CAS Number
178182-49-5

PubChem identifier
5470493

Storage instructions
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview
Soluble in ethanol and in DMSO

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**

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CC1C(C(C(C(O1)O[@@H]2C3=C(C4=C(C3O[@@2]5[@@H]
(CC6=C(O5)C=C7C(C6C=C(C7=O)C(=O)OC)O)O)O)C(=O)C(=CC4=O)OC)O)OC)O
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**Source**

*Streptomyces sp.*

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Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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