Heptelidic acid (Koningic acid), GAPDH inhibitor
ab144269

Overview

Product name
Heptelidic acid (Koningic acid), GAPDH inhibitor

Description
Potent, selective, irreversible GAPDH inhibitor. Selective, competitive DNA polymerase inhibitor.

Biological description
Potent, selective, irreversible GAPDH inhibitor. Selective, competitive DNA polymerase inhibitor. Antibiotic agent. Potently inhibits ATP generation in the glycolytic pathway. Inhibits DNA polymerases β, λ and terminal deoxynucleotidyl transferase (TdT) in family X. Inhibits caspase-3 induction ($IC_{50} = 40 \mu M$). Shows antiapoptotic effects.

Purity
> 95%

Properties

Chemical name
(5aS,6R,9S,9aS)-1-Oxo-6-propan-2-ylspiro[3.5a,6,7,8,9a-hexahydro-2-benzoxepine-9,2'-oxirane]-4-carboxylic acid

Molecular weight
280.32

Molecular formula
$C_{15}H_{20}O_5$

CAS Number
74310-84-2

PubChem identifier
10945834

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

Solubility overview
Soluble in DMSO (10 mg/ml), ethanol (1 mg/ml), methanol (1 mg/ml) or water (1 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

CC(C)(C@H)1CC[C@@]2(CO2)[C@@H]3[C@@H]1C=C(O)C(C3=O)C(O)O

Source

Trichoderma sp.

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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