Koningic acid

Glyceraldehyde-3-phosphate dehydrogenase inhibitor

Koningic acid (KA) is a potent and selective inhibitor of glyceraldehyde-3-phosphate dehydrogenase (GAPDH). Inhibition is irreversible and proceeds via nucleophilic attack of an active site cysteine on the epoxide moiety, for rabbit muscle GAPDH3. KA can selectively kill high-glycolytic cancer cells via glucose dependent ATP depletion. Has been used in a predictive model for selective targeting of the Warburg effect, the most prominent hallmark of cancer cell metabolism.

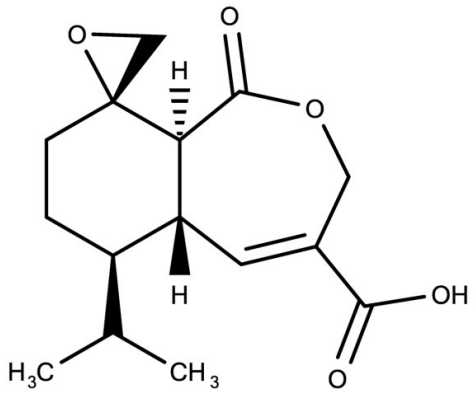
Ordering Information

Order Online »

ENZ-CHM494-0001	1mg

Manuals, SDS & CofA

View Online »


O
O
H
O
H
OH
O
H3C
CH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	(2'S,5aS,6R,9aS)-1,5a,6,7,8,9a-Hexahydro-6-(1-methylethyl)-1-oxo-spiro[2-benzoxepin-9(3H)2'-oxirane]-4-carboxylic acid
Appearance	Off-white solid.
CAS	74310-84-2
Couple Target	GAPDH
Couple Type	Inhibitor
Formula	$C_{15}H_{20}O_5$
Identity	Determined by NMR.
MW	280.32
Purity	≥95% (HPLC)
Solubility	Soluble in water (1 mg/ml).

Last modified: February 27, 2025

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.