

Catalog	Unit
TBI3326 - 1MG	1 mg
TBI3326 – 2.5MG	2.5 mg

Product Details

Formal 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

Alternate Names: Heptelidic acid; BRN5091359; Avocettin

Molecular Formula: C₁₅H₂₀O₅

Formula Weight: 280.32

CAS Number: 74310-84-2

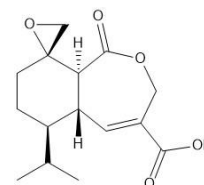
Purity: >98%

Formulation: Powder

Solubility: Soluble in water (up to 1 mg/ml) or in DMSO

Storage: -20°C

Stability: ≥ 2 years.



Applications

Glyceraldehyde-3-phosphate dehydrogenase inhibitor

Functions

Koningic acid (KA; 74310-84-2) 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, $K_i = 1.1 \mu\text{M}$ for rabbit muscle GAPDH. 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.

Application Procedures

First dissolved in water (up to 1 mg/ml) or in DMSO, then diluted to aqueous buffer. Solutions in distilled water or DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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