

Product Data Sheet

Product Name: Koningic acid

Cat. No.: GB40253

Chemical Properties

Cas. No. 74310-84-2

Formula $C_{15}H_{20}O_5$

M.Wt 280.32

Solubility

Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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, $K_i = 1.1 \mu M$ for rabbit muscle GAPDH. KA can selectively kill high-glycolytic cancer cells via glucose dependent ATP depletion. Has been used in a predictive

Caution: Product has not been fully validated for medical applications. For research use only.

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model for selective targeting of the Warburg effect, the most prominent hallmark of cancer cell metabolism.

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