

Product Data Sheet

Product Name: DNA-PK Inhibitor III

Cat. No.: GD11305

Chemical Properties

Cas. No. 404009-40-1

Formula

M.Wt

Solubility DMSO : 100 mg/mL (451.98 mM; Need ultrasonic)

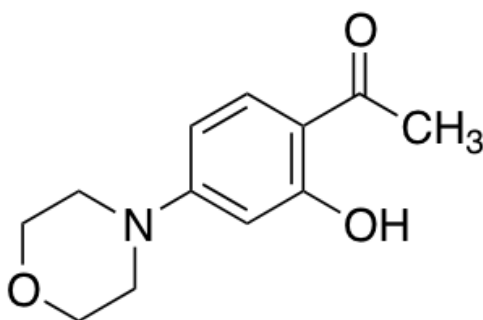
Storage

2-8°C protect from light

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

IC 86621 is a potent DNA-dependent protein kinase (DNA-PK) inhibitor, with an IC₅₀ of 120 nM. IC 86621 also acts as a selective and reversible ATP-competitive inhibitor. IC 86621 inhibits DNA-PK mediated cellular DNA double-strand break (DSB) repair (EC₅₀=68 碌M). IC 86621 increases DSB-induced antitumor activity without cytotoxic effects. IC 86621 can protects rheumatoid arthritis (RA) T cells from apoptosis.

IC 86621 exhibits high selectivity against other kinases such as PI3K, Cdk2, Src, PKA, PKC, Chk1, CK1, ATM, and FKBP12^[1].

IC 86621 (0-100 nM, 24 h) protects RA (rheumatoid arthritis) T cells from apoptosis ^[2].

[1]. Chandra G, et al. Improved synthesis of a DNA-dependent protein kinase inhibitor IC86621. Arch

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

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Pharm Res. 2012 Mar;35(4):639-45.

[2]. Shao L, et al. DNA-dependent protein kinase catalytic subunit mediates T-cell loss in rheumatoid arthritis. EMBO Mol Med. 2010 Oct;2(10):415-27.

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