



Certificate of Analysis

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Product Name: CKD 602 Catalog No.: 5125 Batch No.: 1

IUPAC Name: (4S)-4-Ethyl-4-hydroxy-11-[2-[(1-methylethyl)amino]ethyl]-1*H*-pyrano[3',4':6,7]indolizino[1,2-*b*]quinoline-3,14

Store at -20°C

(4H,12H)dione phosphate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{27}N_3O_4.H_3PO_4.21/2H_2O$

Batch Molecular Weight: 576.53

Physical Appearance: White solid

Solubility: water to 20 mM DMSO to 100 mM

Batch Molecular Structure:

Storage:

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

 Carbon Hydrogen Nitrogen
 Phosphorus

 Theoretical
 52.09
 6.12
 7.29
 5.37

 Found
 52.09
 5.78
 7.21
 5.54





Product Information

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Description:

Topoisomerase I inhibitor. Forms stable DNA-topoisomerase complexes during DNA replication and induces cell cycle arrest in the G₂/M phase. Inhibits growth of a range of cancer cell lines in vitro, as well as of ovarian and leukemia tumors in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{25}H_{27}N_3O_4.H_3PO_4.21/2H_2O$

Batch Molecular Weight: 576.53 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kim et al (2015) Anticancer effects of CKD-602 (Camtobell®) via G2/M phase arrest in oral squamous cell carcinoma cell lines. Oncol.Lett. 9 136. PMID: 25435947.

Jung et al (2006) The synergism between Belotecan and cisplatin in gastric cancer. Cancer Res. Treat. 38 159. PMID: 19771277.

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