

Certificate of Analysis

www.tocris.com

Product Name: B02

Catalog No.: 6392

Batch No.: 1

CAS Number: 1290541-46-6

IUPAC Name: 3-(Phenylmethyl)-2-[(1E)-2-(3-pyridinyl)ethenyl]-4(3H)-quinazolinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₇N₃O.¼H₂O

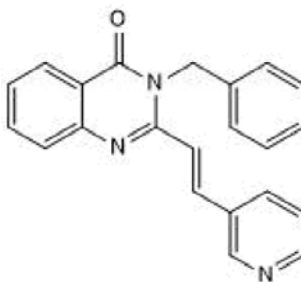
Batch Molecular Weight: 343.9

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.84	5.13	12.22
Found	77.04	4.9	12.31

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: B02

Catalog No.: 6392

Batch No.: 1

CAS Number: 1290541-46-6

IUPAC Name: 3-(Phenylmethyl)-2-[(1E)-2-(3-pyridinyl)ethenyl]-4(3H)-quinazolinone

Description:

RAD51 recombinase inhibitor, exhibiting selectivity for human RAD51 over the E.coli homologue RecA (IC₅₀ values are 27.4 μM and >250 μM, respectively). Inhibits homologous recombination and increases cellular sensitivity to DNA damage in vitro. Enhances the therapeutic effect of cisplatin (Cat. No. 2251) on tumor cells in vivo.

Physical and Chemical Properties:

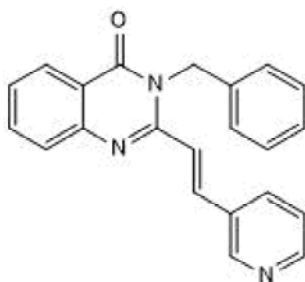
Batch Molecular Formula: C₂₂H₁₇N₃O.¼H₂O

Batch Molecular Weight: 343.9

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Alagpulinsa et al (2014) A small-molecule inhibitor of RAD51 reduces homologous recombination and sensitizes multiple myeloma cells to doxorubicin. *Front.Oncol.* **4** 289. PMID: 25401086.

Huang and Mazin (2014) A small molecule inhibitor of human RAD51 potentiates breast cancer cell killing by therapeutic agents in mouse xenografts. *PLoS One* **9** e100993. PMID: 24971740.

Huang et al (2012) Inhibition of homologous recombination in human cells by targeting RAD51 recombinase. *J.Med.Chem.* **55** 3011. PMID: 22380680.

Huang et al (2011) Identification of specific inhibitors of human RAD51 recombinase using high-throughput screening. *ACS Chem.Biol.* **6** 682. PMID: 21428443.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956