TOCRIS b i o s c i e n c e

Certificate of Analysis

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Catalog No.: 2639

Product Name: CGK 733

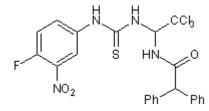
CAS Number: IUPAC Name:

α-Phenyl-N-[2,2,2-trichloro-1-[[[(4-fluoro-3-nitrophenyl)amino]thioxomethyl]amino]ethyl]benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

905973-89-9

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{23}H_{18}CI_3FN_4O_3S$ 555.84 Pale yellow solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

TLC: Melting Point: HPLC: ¹H NMR: ¹³C NMR: Mass Spectrum: Microanalysis: $R_{f} = 0.3 \text{ (Ethyl acetate:Petroleum ether [1:1])}$ Between 185 - 186°C(dec)
Shows >99.31% purity
Consistent with structure
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 49.7 3.26 10.08
Found 49.7 3.13 9.98

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

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Batch No.: 2

TOCRIS b i o s c i e n c e

Batch No.: 2

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Product Name: CGK 733

CAS Number: IUPAC Name:

α-Phenyl-N-[2,2,2-trichloro-1-[[[(4-fluoro-3-nitrophenyl)amino]thioxomethyl]amino]ethyl]benzeneacetamide

Description:

Originally defined as a selective inhibitor of ATR and ATM kinases. Induces cell death in prematurely senescent breast cancer cells. Decreases p21^{CIP1} levels in premature senescent MCF-7 and HCT-116 cells; also exhibits antiproliferative activity in a range of cancer cell lines. Blocks camptothecin-induced p53 phosphorylation and protects cells from camptothecin-induced apoptosis.

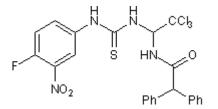
905973-89-9

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₁₈Cl₃FN₄O₃S Batch Molecular Weight: 555.84 Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: 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 $45-60^{\circ}C$ water bath).

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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:

Goldstein *et al* (2008) Apoptotic death induced by the cyclophosphamide analogue mafosfamide in human lymphoblastoid cells: Contribution of DNA replication, transcription inhibition and Chk/p53 signaling. Toxicol.Appl.Pharmacol. **229** 20. PMID: 18289623.

Crescenzi *et al* (2008) Ataxia telangiectasia mutated and p21CIP1 modulate cell survival of drug-induced senescent tumor cells: Implications for chemotherapy. Clin.Cancer Res. **14** 1877. PMID: 18347191.

Cruet-Hennequart *et al* (2008) Enhanced DNA-PK-mediated RPA2 hyperphosphorylation in DNA polymerase η-deficient human cells treated with cisplatin and oxaliplatin. DNA Repair **7** 582. PMID: 18289945.

Won et al (2008) Retraction: small molecule-based reversible reprogramming of cellular lifespan. Nat.Chem.Biol. 4 431. PMID: 18560433.

Bhattacharya et al (2009) Role of polyamines in p53-dependent apoptosis of intestinal epithelial cells. Cell Signal. 21 509. PMID: 19136059.

Alao and Sunnerhagen (2009) The ATM and ATR inhibitors CGK733 and caffeine suppress cyclin D1 levels and inhibit cell proliferation. Radiat.Oncol. **10** 4. PMID: 19903334.

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