Product Name: PD 407824
Catalog No.: 2694
Batch No.: 1
CAS Number: 622864-54-4
IUPAC Name: 9-Hydroxy-4-phenyl-pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{12}\text{N}_2\text{O}_3.\frac{1}{4}\text{H}_2\text{O} \)
Batch Molecular Weight: 332.82
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM, ethanol to 25 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 98.0% purity
\(^1\text{H} \) NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

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Certificate of Analysis
Print Date: Jun 4th 2019
www.tocris.com

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

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CAS Number: 622864-54-4
IUPAC Name: 9-Hydroxy-4-phenyl-pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione

Description:
Potent and selective inhibitor of checkpoint kinases Chk1 and Wee1 (IC₅₀ values are 47 and 97 nM respectively). Displays selectivity over a range of other protein kinases; IC₅₀ values are 3.4, 3.75, > 5, > 50, > 50 and > 50 μM for PKC, CDK4, other CDKs, c-Src, PDGFR and FGFR respectively. Also sensitizes hESCs to BMP4 to induce differentiation.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₁₂N₂O₃.½H₂O
Batch Molecular Weight: 332.82
Physical Appearance: Orange solid

Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 25 mM
When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.

Licensing Information:
Sold for research purposes under agreement from Pfizer Inc.

References: