

Product Name: CPYPP

Catalog No.: 4568

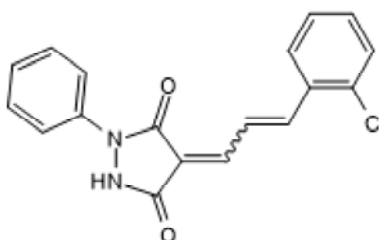
Batch No.: 2

CAS Number: 310460-39-0

IUPAC Name: 4-[3-(2-Chlorophenyl)-2-propen-1-ylidene]-1-phenyl-3,5-pyrazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃ClN₂O₂.
Batch Molecular Weight: 324.76
Physical Appearance: Dark red solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.57	4.03	8.63
Found	66.22	3.9	8.59

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

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Product Name: CPYPP

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IUPAC Name: 4-[3-(2-Chlorophenyl)-2-propen-1-ylidene]-1-phenyl-3,5-pyrazolidinedione

Description:

CPYPP is a DOCK2-Rac1 interaction inhibitor; suppresses DOCK2-induced Rac1 activation. Also inhibits DOCK1 and DOCK5. Exhibits selectivity over DOCK9. Reduces chemotactic responses in vitro and in vivo, and activates T cells in vitro. Also attenuates HER2-mediated breast cancer cell migration in vitro.

Physical and Chemical Properties:

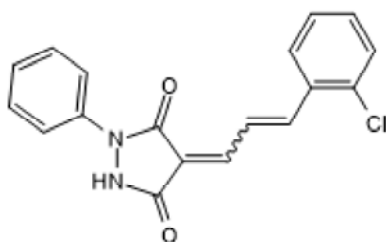
Batch Molecular Formula: C₁₈H₁₃ClN₂O₂.

Batch Molecular Weight: 324.76

Physical Appearance: Dark red solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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 20 mM

This compound is a mixture of E/Z isomers (~ 1:1)

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:

Laurin *et al* (2013) Rac-specific guanine nucleotide exchange factor DOCK1 is a critical regulator of HER2-mediated breast cancer metastasis. *Proc.Natl.Acad.Sci.U.S.A.* **110** 7434. PMID: 23592719.

Nishikimi *et al* (2012) Blockade of inflammatory responses by a small-molecule inhibitor of the Rac activator DOCK2. *Chem.Biol.* **19** 488. PMID: 22520755.

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