

**Product Name:** CPYPP

**Catalog No.:** 4568

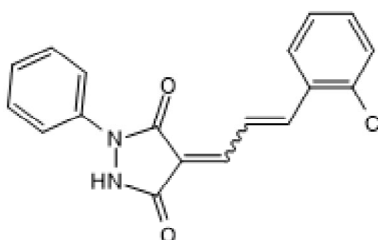
**Batch No.:** 4

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:** C<sub>18</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>2</sub>.  
**Batch Molecular Weight:** 324.76  
**Physical Appearance:** Red solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.5 % purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.57	4.03	8.63
Found	66.51	4.06	8.46

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

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**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:**

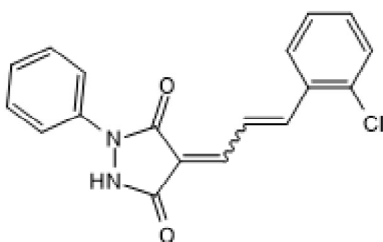
Batch Molecular Formula: C<sub>18</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>2</sub>.

Batch Molecular Weight: 324.76

Physical Appearance: 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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