

## Product Information

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**Product Name:** Nutlin-3

**Catalog No.:** 3984

**Batch No.:** 1

**CAS Number:** 548472-68-0

**IUPAC Name:** (±)-4-[4,5-Bis(4-chlorophenyl)-2-(2-isopropoxy-4-methoxy-phenyl)-4,5-dihydro-imidazole-1-carbonyl]-piperazin-2-one

### Description:

MDM2 antagonist; inhibits the MDM2-p53 interaction ( $IC_{50}$  = 0.09  $\mu$ M) and activates p53. Antiproliferative agent; induces apoptosis in cancer cells.

### Physical and Chemical Properties:

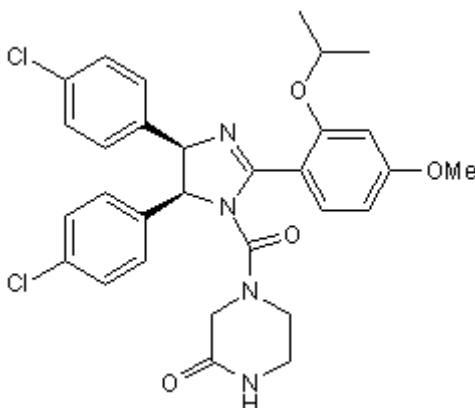
Batch Molecular Formula:  $C_{30}H_{30}Cl_2N_4O_4 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 590.5

Physical Appearance: White solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

DMSO to 100 mM

ethanol 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°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:

Vassilev *et al* (2004) In vivo activation of the p53 pathway by small-molecule antagonists of MDM2. *Science* **303** 844. PMID: 14704432.

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

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