1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \(C_{30}H_{30}Cl_{2}N_{4}O_{4}\cdot\frac{1}{2}H_{2}O\)
- **Batch Molecular Weight:** 590.5
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 100 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **HPLC:** Shows 97.8% purity
- **Chiral HPLC:** Shows 100% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = -131.3\) (Concentration = 0.13, Solvent = Chloroform)
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
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<tr>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: Nutlin 3a
Catalog No.: 6075
Batch No.: 1

Description:
MDM2 antagonist (IC₅₀ = 90 nM); inhibits the MDM2-p53 interaction. Active enantiomer of Nutlin-3 (Cat. No. 3984). Induces expression for P53 regulated genes. Suppresses tumor growth in vivo >98% in prostate cancer and osteosarcoma cancer models. Antiproliferative.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₈H₂₆Cl₂N₃O₆.½H₂O
Batch Molecular Weight: 590.5
Physical Appearance: White solid

Minimum Purity: >97%

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: