

**Product Name:** 673 A

**Catalog No.:** 6934

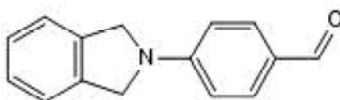
**Batch No.:** 1

CAS Number: 109437-62-9

IUPAC Name: 4-(1,3-Dihydro-2*H*-isoindol-2-yl)benzaldehyde

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>13</sub>NO  
**Batch Molecular Weight:** 223.28  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	80.69	5.87	6.27
Found	80.34	5.87	6.52

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

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**Catalog No.:** 6934

**Batch No.:** 1

CAS Number: 109437-62-9

IUPAC Name: 4-(1,3-Dihydro-2H-isoindol-2-yl)benzaldehyde

**Description:**

Aldehyde dehydrogenase (ALDH1A) inhibitor (IC<sub>50</sub> values are 230, 246 and 348 nM for ALDH1A2, ALDH1A1 and ALDH1A3, respectively). Exhibits >40-fold selectivity for ALD1A over ALDH2. Depletes CD133<sup>+</sup> cancer stem cells (CSC) in ovarian cancer cell lines. Triggers necroptosis in ovarian CSCs and induces expression of mitochondrial uncoupling proteins (UCP). Overcomes chemotherapy resistance in vivo.

**Physical and Chemical Properties:**

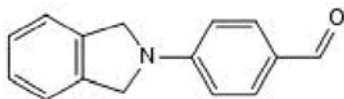
Batch Molecular Formula: C<sub>15</sub>H<sub>13</sub>NO

Batch Molecular Weight: 223.28

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Chefetz et al** (2019) A pan-ALDH1A inhibitor induces necroptosis in ovarian cancer stem-like cells. *Cell Rep.* **26** 3061. PMID: 30865894.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 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.

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