

## Certificate of Analysis

www.tocris.com

**Product Name:** JNJ 28871063 hydrochloride

**Catalog No.:** 3352

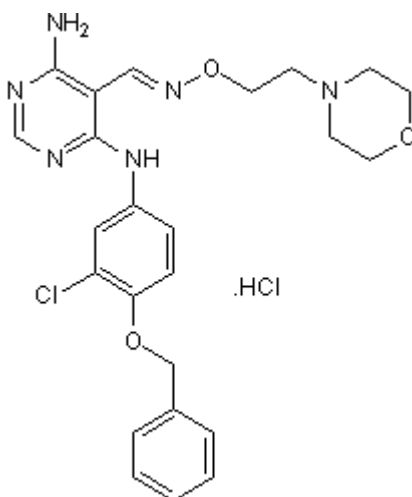
**Batch No.:** 2

CAS Number: 944342-90-9

IUPAC Name: 5E-4-Amino-6-(4-benzyloxy-3-chlorophenylamino)pyrimidine-5-carboxaldehyde N-(2-morpholin-4-ylethyl) oxime hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> ClN <sub>6</sub> O <sub>3</sub> .HCl.¼H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	523.92
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 50 mM
<b>Storage:</b>	Desiccate at +4°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.4% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	55.02	5.48	16.04
Found	55.14	5.16	15.64

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

**Product Name:** JNJ 28871063 hydrochloride

**Catalog No.:** 3352

**Batch No.:** 2

CAS Number: 944342-90-9

IUPAC Name: 5E-4-Amino-6-(4-benzyloxy-3-chlorophenylamino)pyrimidine-5-carboxaldehyde N-(2-morpholin-4-ylethyl) oxime hydrochloride

**Description:**

Potent and selective ErbB receptor family inhibitor (IC<sub>50</sub> values are 21, 22 and 38 nM for ErbB4, EGFR and ErbB2 respectively). Displays potent growth inhibition of human cancer cell lines overexpressing ErbB2 in vitro (IC<sub>50</sub> = 60 - 168 nM) and inhibits growth of human tumor xenografts in vivo. Brain penetrant and orally active.

**Physical and Chemical Properties:**

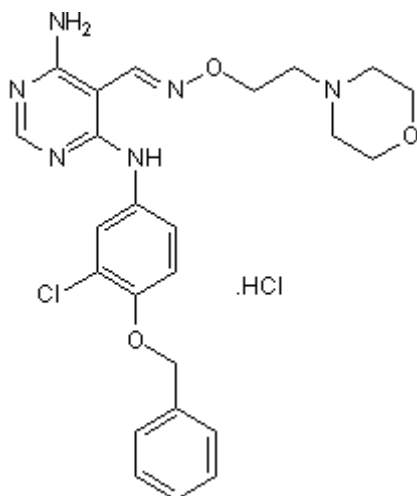
Batch Molecular Formula: C<sub>24</sub>H<sub>27</sub>ClN<sub>6</sub>O<sub>3</sub>·HCl·¼H<sub>2</sub>O

Batch Molecular Weight: 523.92

Physical Appearance: White solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°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.

**References:**

**Contessa and Hamstra** (2008) Revoking the privilege: targeting HER2 in the central nervous system. *Mol.Pharmacol.* **73** 271. PMID: 17981994.

**Emanuel et al** (2008) Cellular and in vivo activity of JNJ-28871063, a nonquinazoline pan-ErbB kinase inhibitor that crosses the blood-brain barrier and displays efficacy against intracranial tumors. *Mol.Pharmacol.* **73** 338. PMID: 17975007.

**Guessous et al** (2008) Signaling pathways in medulloblastoma. *J.Cell.Phys.* **217** 577.

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