

## Certificate of Analysis

**Product Name:** CP 724714

**Catalog No.:** 5973

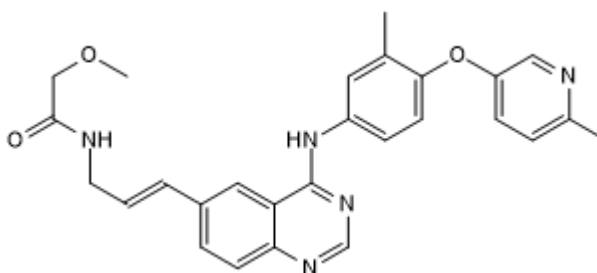
**Batch No.:** 1

CAS Number: 383432-38-0

IUPAC Name: 2-Methoxy-*N*-[(2*E*)-3-[4-[[3-methyl-4-[(6-methyl-3-pyridinyl)oxy]phenyl]amino]-6-quinazoliny]-2-propen-1-yl]acetamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>27</sub> H <sub>27</sub> N <sub>5</sub> O <sub>3</sub>
<b>Batch Molecular Weight:</b>	469.53
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.3% 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	69.07	5.8	14.92
Found	68.97	5.85	14.96

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

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**Description:**

Potent and selective ErbB2 inhibitor (IC<sub>50</sub> = 10 nM). Exhibits 500-1000-fold selectivity for ErbB2 over ErbB1 and other related RTKs. Induces G<sub>1</sub> cell cycle arrest in an ErbB2-overexpressing human cancer cell line. Promotes tumor apoptosis. Induces tumor regression in a human tumor xenograft model. Displays no apparent toxic effect on cardiac tissue.

**Physical and Chemical Properties:**

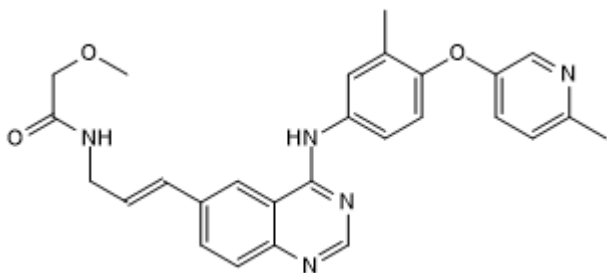
Batch Molecular Formula: C<sub>27</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>

Batch Molecular Weight: 469.53

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Jani *et al* (2007) Discovery and pharmacologic characterization of CP-724,714, a selective ErbB2 tyrosine kinase inhibitor. *Cancer Res.* **67** 9887. PMID: 17942920.

**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 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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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