

## Certificate of Analysis

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**Product Name:** HDS 029

**Catalog No.:** 2646

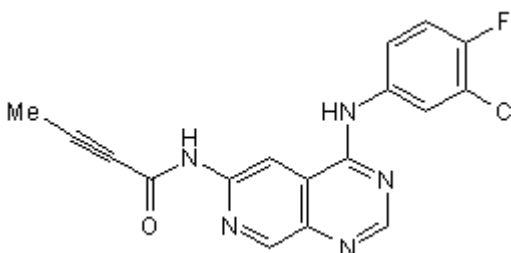
**Batch No.:** 1

CAS Number: 881001-19-0

IUPAC Name: *N*-(4-[(3-Chloro-4-fluorophenyl)amino]pyrido[3,4-*d*]pyrimidin-6-yl)-2-butyamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>11</sub> ClFN <sub>5</sub> O.2½H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	400.8
<b>Physical Appearance:</b>	Pale yellow solid
<b>Solubility:</b>	DMSO to 25 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.62 (Ethyl acetate)
<b>HPLC:</b>	Shows >97.9% 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	50.95	4.02	17.47
Found	50.83	3.74	17.09

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

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**Description:**

Potent inhibitor of the ErbB receptor family (IC<sub>50</sub> values are 0.3, 0.5 and 1.1 nM for ErbB1 (EGFR), ErbB4 and ErbB2 respectively). Inhibits EGF-induced erbB1 autophosphorylation in NIH3T3 cells and heregulin-stimulated ErbB autophosphorylation in MDA-MB-453 human breast carcinoma cells (IC<sub>50</sub> values are 2.5 and 24 nM respectively).

**Physical and Chemical Properties:**

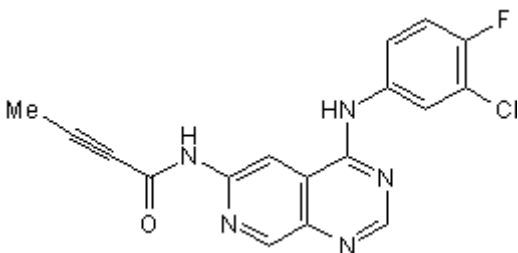
Batch Molecular Formula: C<sub>17</sub>H<sub>11</sub>ClFN<sub>5</sub>O.2½H<sub>2</sub>O

Batch Molecular Weight: 400.8

Physical Appearance: Pale yellow solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**References:**

**Klutchko** *et al* (2006) Tyrosine kinase inhibitors. 19. 6-alkynamides of 4-anilinoquinazolines and 4-anilopyrido[3,4-*d*]pyrimidines as irreversible inhibitors of the erbB family of tyrosine kinase receptors. *J.Med.Chem.* **49** 1475. PMID: 16480284.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 25 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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