TOCRIS
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Print Date: Jan 13th 2016

# Certificate of Analysis

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**Product Name:** **PD 153035 hydrochloride** **Catalog No.: 1037** **Batch No.: 2**

CAS Number: 183322-45-4

IUPAC Name: 4-[(3-Bromophenyl)amino]-6,7-dimethoxyquinazoline hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{16}H_{14}BrN_3O_2.HCl$

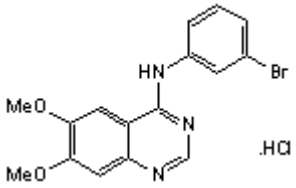
**Batch Molecular Weight:** 396.67

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 10 mM with gentle warming

**Storage:** Store at RT

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**TLC:** $R_f$ = 0.3 (Ethyl acetate:Triethylamine [10:0.1])

**Melting Point:** Between 262 - 264°C

**$^1$H NMR:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 48.45 | 3.81 | 10.59 |
| Found | 48.29 | 3.71 | 10.59 |



**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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IUPAC Name: 4-[(3-Bromophenyl)amino]-6,7-dimethoxyquinazoline hydrochloride

**Description:**

An extremely potent inhibitor of epidermal growth factor (EGF) receptor tyrosine kinase, with an $IC_{50}$ of 25 pM. Inhibits other purified tyrosine kinases only at micromolar or higher concentrations.

**Physical and Chemical Properties:**

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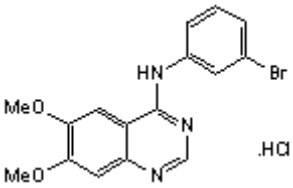


**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 mM with gentle warming

**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:**

**Fry** *et al* (1994) A specific inhibitor of the epidermal growth factor receptor tyrosine kinase. Science ***265*** 1093. PMID: 8066447.

**Bridges** *et al* (1996) Tyrosine kinase inhibitors. 8. An unusually steep structure-activity relationship for analogues of 4-(3-bromoanilino)-6,7-dimethoxyquinazoline (PD 153035), a potent inhibitor of the epidermal growth factor receptor. J.Med.Chem. ***39*** 267. PMID: 8568816.

**Bos** *et al* (1997) PD153035, a tyrosine kinase inhibitor, prevents epidermal growth factor receptor activation and inhibits growth of cancer cells in a receptor number-dependent manner. Clin.Cancer Res. ***3*** 2099. PMID: 9815602.