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: \( \text{C}_{16}\text{H}_{14}\text{BrN}_{3}\text{O}_{2}\cdot\text{HCl} \)
Batch Molecular Weight: 396.67
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Store at RT

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:

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>48.45</td>
<td>3.81</td>
</tr>
<tr>
<td>Found</td>
<td>48.29</td>
<td>3.71</td>
</tr>
</tbody>
</table>
Product Name: PD 153035 hydrochloride

CAS Number: 183322-45-4

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\textsubscript{50} of 25 pM. Inhibits other purified tyrosine kinases only at micromolar or higher concentrations.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{10}H\textsubscript{14}BrN\textsubscript{2}O\textsubscript{2}.HCl
Batch Molecular Weight: 396.67
Physical Appearance: Yellow solid

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:


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.