Print Date: May 30th 2022

Certificate of Analysis

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Product Name: **AG 1478 hydrochloride** **Catalog No.: 1276** **Batch No.: 2**

CAS Number: 170449-18-0

IUPAC Name: *N*-(3-Chlorophenyl)-6,7-dimethoxy-4-quinazolinanine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{14}ClN_3O_2.HCl$

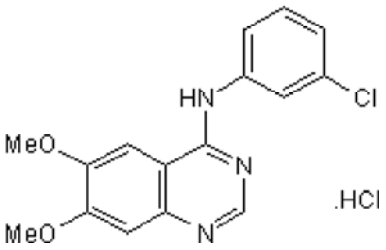
Batch Molecular Weight: 352.22

Physical Appearance: Cream solid

Solubility: DMSO to 10 mM with gentle warming

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Ethyl acetate:Triethylamine [10:0.003])

HPLC: Shows 97.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.56	4.29	11.93
Found	54.53	4.29	11.9

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Description:

AG 1478 hydrochloride is a potent and selective inhibitor of epidermal growth factor receptor kinase (IC_{50} values 3 nM for EGFR and > 100 µM for ErbB2 and PDGFR). Inhibits proliferation of NCI-H2170 NSCLC cells in vitro (IC_{50} = 1 µM).

Physical and Chemical Properties:

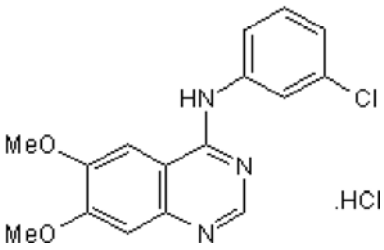
Batch Molecular Formula: $C_{16}H_{14}ClN_3O_2.HCl$

Batch Molecular Weight: 352.22

Physical Appearance: Cream solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

References:

Puri and Salgia (2008) Synergism of EGFR and c-Met pathways, cross-talk and inhibition, in non-small cell lung cancer. J.Carcinog. ***7*** 9. PMID: 19240370.

Eguchi *et al* (1998) Calcium-dependent epidermal growth factor receptor transactivation mediates the angiotensin II-induced mitogen-activated protein kinase activation in vascular smooth muscle cells. J.Biol.Chem. ***273*** 8890. PMID: 9535870.

Han *et al* (1996) Tyrphostin AG 1478 preferentially inhibits human glioma cells expressing truncated rather than wild-type epidermal growth factor receptors. Cancer Res. ***56*** 3859. PMID: 8752145.