

Certificate of Analysis

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Product Name: AG 494

Catalog No.: 0619

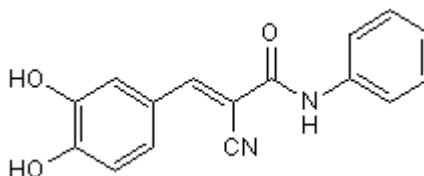
Batch No.: 2

CAS Number: 133550-35-3

IUPAC Name: (*E*)-2-Cyano-3-(3,4-dihydroxyphenyl)-*N*-phenyl-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₂N₂O₃
Batch Molecular Weight: 280.28
Physical Appearance: Yellow solid
Solubility: ethanol to 5 mM
DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Dichloromethane:Methanol [10:1])
Melting Point: At 264°C(dec)
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	68.57	4.32	9.99
Found	68.3	4.34	10.03

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

Product Information

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Batch No.: 2

CAS Number: 133550-35-3

IUPAC Name: (E)-2-Cyano-3-(3,4-dihydroxyphenyl)-N-phenyl-2-propenamide

Description:

Potent inhibitor of epidermal growth factor receptor (EGFR) kinase (IC_{50} = 0.7 μ M). Selective over ErbB2, PDGFR and insulin receptor kinase (IC_{50} values are 42, 6 and > 100 μ M respectively).

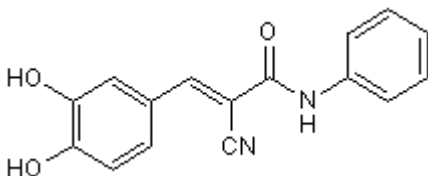
Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{12}N_2O_3$

Batch Molecular Weight: 280.28

Physical Appearance: Yellow solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

ethanol to 5 mM

DMSO to 50 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.

References:

Gazit et al (1991) Tyrophostins. 2. Heterocyclic and α -substituted benzylidenemalononitrile tyrophostins as potent inhibitors of EGF receptor and ErbB2/neu tyrosine kinases. *J.Med.Chem.* **34** 1896. PMID: 1676428.

Ben-Bassat et al (1999) Tyrophostins that suppress the growth of human papilloma virus 16-immortalized human keratinocytes. *J.Pharmacol.Exp.Ther.* **290** 1442. PMID: 10454524.

Tomlins et al (2005) Cross-talk between the calcium-sensing receptor and the epidermal growth factor receptor in Rat-1 fibroblasts. *Exp.Cell Res.* **308** 439. PMID: 15950968.

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