

Certificate of Analysis

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Product Name: AG 555

Catalog No.: 0618

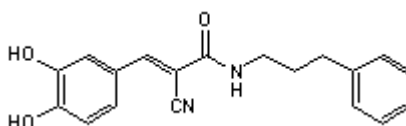
Batch No.: 1

CAS Number: 133550-34-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈N₂O₃
Batch Molecular Weight: 322.36
Physical Appearance: Yellow solid
Solubility: DMSO to 30 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.61 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure

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

Product Information

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

Description:

Potent epidermal growth factor receptor (EGFR) kinase inhibitor (IC_{50} = 0.7 μ M) that displays 50-fold and >140-fold selectivity over ErbB2 and insulin receptor kinase respectively. Induce G_1 growth arrest selectively in transformed cells (IC_{50} values are 6.4 and 9.4 μ M in HPV16-immortalized and normal keratinocytes respectively).

Physical and Chemical Properties:

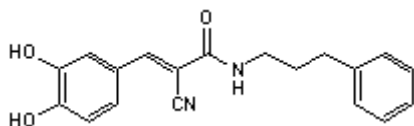
Batch Molecular Formula: $C_{19}H_{18}N_2O_3$

Batch Molecular Weight: 322.36

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 30 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.

Levitzi and Gazit (1995) Tyrosine kinase inhibition: an approach to drug development. *Science* **267** 1782. PMID: 7892601.

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.

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