TOCRIS
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Print Date: Jan 15th 2016

# Certificate of Analysis

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**Product Name:** **AG 556** **Catalog No.: 0616** **Batch No.: 1**

CAS Number: 133550-41-1

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{20}H_{20}N_2O_3$

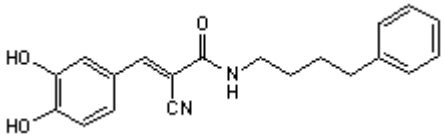
**Batch Molecular Weight:** 336.39

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 30 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**TLC:** $R_f$ = 0.53 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.4% purity

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



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CAS Number: 133550-41-1

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

**Description:**

Epidermal growth factor receptor (EGFR) kinase inhibitor ($IC_{50}$ = 1.1 μM). Selective over ErbB2 ($IC_{50}$ > 500 μM).

**Physical and Chemical Properties:**

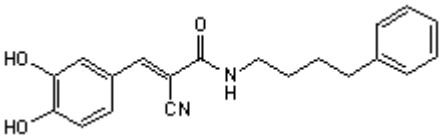
Batch Molecular Formula: $C_{20}H_{20}N_2O_3$

Batch Molecular Weight: 336.39

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) Tyrphostins. 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.

**Gamett** *et al* (1997) Secondary dimerization between members of the epidermal growth factor receptor family. J.Biol.Chem. ***272*** 12052. PMID: 9115272.



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