

Certificate of Analysis

Product Name: Tyrphostin B44, (-) enantiomer

Catalog No.: 0578

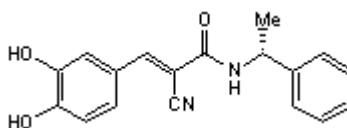
Batch No.: 1

CAS Number: 133550-32-0

IUPAC Name: (R)-(E)-2-Cyano-3-(3',4'-dihydroxyphenyl)-N-(1-phenylethyl)-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈ H ₁₆ N ₂ O ₃
Batch Molecular Weight:	308.34
Physical Appearance:	Light yellow crystalline solid
Solubility:	DMSO to 30 mM
Storage:	Desiccate at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.68 (Dichloromethane:Methanol [9:1])
¹H NMR:	Consistent with structure

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

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Description:

Potent inhibitor of epidermal growth factor receptor (EGFR) kinase ($IC_{50} = 0.4 \mu M$), more active than the (+) enantiomer (Cat. No. 0579). Selective over ErbB2.

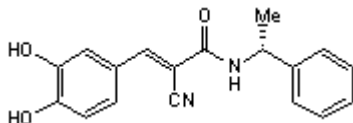
Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{16}N_2O_3$

Batch Molecular Weight: 308.34

Physical Appearance: Light yellow crystalline solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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.

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