

Certificate of Analysis

www.tocris.com

Product Name: AG 825

Catalog No.: 1555

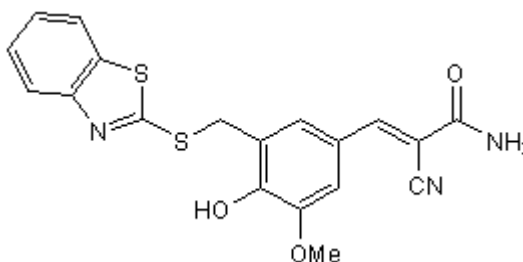
Batch No.: 1

CAS Number: 149092-50-2

IUPAC Name: (E)-3-[3-[2-Benzothiazolythio)methyl]-4-hydroxy-5-methoxyphenyl]-2-cyano-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅N₃O₃S₂
Batch Molecular Weight: 397.47
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Ethyl acetate)
Melting Point: At 262°C(dec)
HPLC: Shows 97.1% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.42	3.8	10.57
Found	57.4	3.85	10.2

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

Product Name: AG 825

Catalog No.: 1555

Batch No.: 1

CAS Number: 149092-50-2

IUPAC Name: (E)-3-[3-[2-Benzothiazolythio)methyl]-4-hydroxy-5-methoxyphenyl]-2-cyano-2-propenamide

Description:

Selective ErbB2 inhibitor (IC₅₀ values are 0.15 and 19 μM at ErbB2 and ErbB1 respectively). Preferentially triggers p38 MAP kinase-dependent apoptosis in androgen-independent prostate cancer cells.

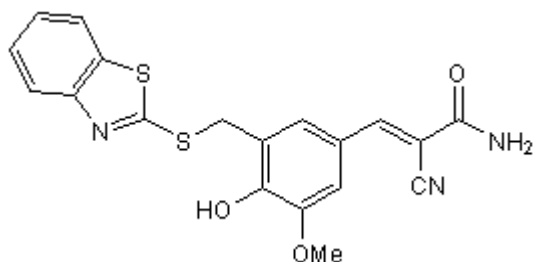
Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₅N₃O₃S₂

Batch Molecular Weight: 397.47

Physical Appearance: Yellow solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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 (1993) Tyrphostins. 3. Structure-activity relationship studies of α-substituted benzylidenemalononitrile 5-S-aryltyrphostins. *J.Med.Chem.* **36** 3556. PMID: 7902440.

Oshero et al (1993) Selective inhibition of the epidermal growth factor and HER2/Neu receptors by tyrphostins. *J.Biol.Chem.* **268** 11134. PMID: 8098709.

Murillo et al (2001) Tyrphostin AG825 triggers p38 mitogen-activated protein kinase-dependent apoptosis in androgen-independent prostate cancer cells C4 and C4-21. *Cancer Res.* **61** 7408. PMID: 11606371.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956