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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **AG 879** **Catalog No.: 2617** **Batch No.: 2**

CAS Number: 148741-30-4

IUPAC Name: (2*E*)-3-[3,5-Bis(1,1-dimethylethyl)-4-hydroxyphenyl]-2-cyano-2-propenethioamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{24}N_2OS$

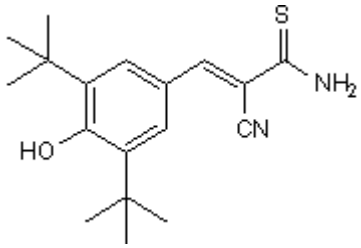
Batch Molecular Weight: 316.46

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.8 (Ethyl acetate:Petroleum ether [2:3])

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.32	7.64	8.85
Found	67.73	7.29	8.87

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Product Information

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IUPAC Name: (2*E*)-3-[3,5-Bis(1,1-dimethylethyl)-4-hydroxyphenyl]-2-cyano-2-propenethioamide

Description:

Inhibitor of the tyrosine kinase activity of nerve growth factor (NGF) TrkA. Decreases cellular proliferation in human muscular sarcoma cell lines. Also inhibits ErbB2 and VEGFR-2 (IC_{50} values are approximately 1 µM for both).

Physical and Chemical Properties:

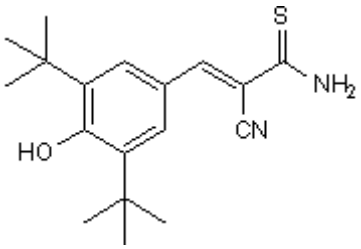
Batch Molecular Formula: $C_{18}H_{24}N_2OS$

Batch Molecular Weight: 316.46

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°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 100 mM
ethanol to 25 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:

He *et al* (2004) The Tyr-kinase inhibitor AG879, that blocks the ETK-PAK1 interaction, suppresses the RAS-induced PAK1 activation and malignant transformation. Cancer Biol.Ther. ***3*** 96. PMID: 14726663.

Rende *et al* (2006) Role of nerve growth factor and its receptors in non-nervous cancer growth: efficacy of a tyrosine kinase inhibitor (AG879) and neutralizing antibodies antityrosine kinase receptor A and antinerve growth factor: an in-vitro and in-vivo study. Anticancer Drugs ***17*** 929. PMID: 16940803.

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