

Product Name: PD 98059

Catalog No.: 1213

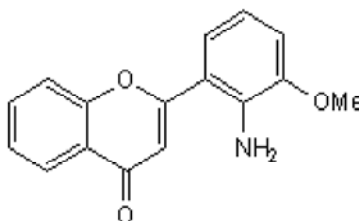
Batch No.: 9

CAS Number: 167869-21-8

IUPAC Name: 2-(2-Amino-3-methoxyphenyl)-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃NO₃
Batch Molecular Weight: 267.28
Physical Appearance: Yellow solid
Solubility: DMSO to 25 mM
 ethanol to 5 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.9	4.9	5.24
Found	71.51	4.9	5.34

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

Product Name: PD 98059

Catalog No.: 1213

Batch No.: 9

CAS Number: 167869-21-8

IUPAC Name: 2-(2-Amino-3-methoxyphenyl)-4H-1-benzopyran-4-one

Description:

Inhibitor of mitogen-activated protein kinase kinase (MKK / MEK). Acts by binding to the inactivated form of MEK, thereby preventing its phosphorylation by cRAF or MEK kinase (IC₅₀ = 2-7 μM). Inhibits cell growth and proliferation in acute myelogenous leukemia (AML) cell lines; causes G₁ arrest by blocking p53-dependent p21 induction. Enhances embryonic stem cell self-renewal.

Physical and Chemical Properties:

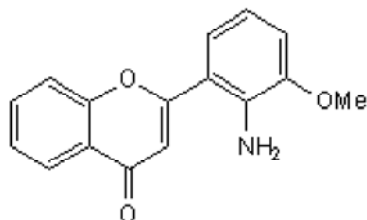
Batch Molecular Formula: C₁₆H₁₃NO₃

Batch Molecular Weight: 267.28

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 mM

ethanol to 5 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Kojima et al (2007) Mitogen-activated protein kinase kinase inhibition enhances nuclear proapoptotic function of p53 in acute myelogenous leukemia cells. **67** 3210. PMID: 17409429.

Qi et al (2004) BMP4 supports self-renewal of embryonic stem cells by inhibiting mitogen-activated protein kinase pathways. Proc.Natl.Acad.Sci.USA **101** 6027. PMID: 15075392.

Tsang et al (1998) Effects of mitogen-activated protein kinase kinase inhibitor PD 98059 on antigen challenge of guinea-pig airways *in vitro*. Br.J.Pharmacol. **125** 61. PMID: 9776345.

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