

## PD 98059

Cat. #: P-260

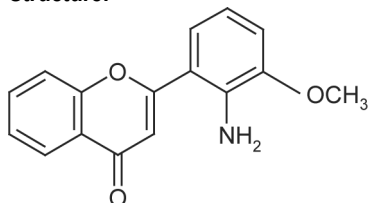
**Source description:** Synthetic.

**M.W.:** 267.28 daltons.

**Purity:** >99%.

**Effective concentration:** 1-80  $\mu$ M.

**Structure:**



**Chemical name:** 2-(2-Amino-3-methoxyphenyl)-4H-1-benzopyran-4-one.

**Molecular formula:** C<sub>16</sub>H<sub>13</sub>NO<sub>3</sub>.

**CAS No.:** 167869-21-8.

**Activity:** PD 98059 specifically inhibits the mitogen-activated protein kinase kinase (MAPKK) also known as MEK1 and MEK2. It is commonly used in studies of the MAPK pathway.

**References:**

1. Dudley, D.T. *et al.* (1995) *Proc. Natl. Acad. Sci. U.S.A.* **92**, 7686.

**Sizes:** 1 mg, 5 x 1 mg, 5 mg or 10 x 0.1 mg lyophilized powder.

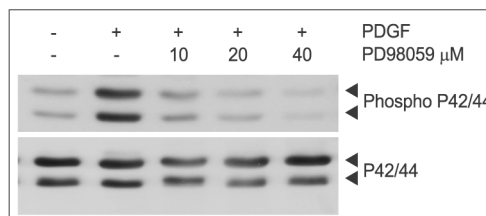
**Storage before reconstitution:** Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

**Reconstitution:** DMSO. Centrifuge all product preparations before use (10000 x g 5 min).

**Storage and stability after reconstitution:** Up to two weeks at 4°C or six months at -20°C.

**Protect from light.**

**Bioassay:** PD 98059 inhibits P42/44 MAPK (ERK) phosphorylation via MEK in C6 glioma cells.



Cells were grown to 70% confluence and serum starved for 1.5 h. The cells were then incubated for 2 h with various concentrations of **PD 98059** (#P-260) and stimulated with 7 ng/ml PDGF-AA. Cell proteins were resolved by SDS-PAGE and probed with anti-phospho-P42/44 (upper panel) and with anti-P42/44 (lower panel) antibodies. Inhibition of P42/44 phosphorylation by PD 98059 was dose-dependent.

For research purposes only, not for human use.  
Last Update: May, 2010.