PD98059
2’-amino-3’-methoxyflavone

PRODUCT ANALYSIS SHEET

Catalog Number: PHZ1164
Lot Number: 17920-17S
Quantity: 5.0 mg
Appearance: Pale yellow solid
Molecular Formula: C_{16}H_{13}NO_{3}
Molecular Weight: 267.3
Purity: >95%, as assessed by HPLC

Summary: PD98059 is a potent and selective cell permeable inhibitor of MAP kinase kinase (MEK). It selectively blocks the activation of MEK, thereby inhibiting the phosphorylation and the activation of MAP kinase. In pheochromocytoma (PC12) cells, it completely blocks the increase in MAP kinase activity produced by NGF. PD98059 is an invaluable tool to help elucidate the role of the MAPK cascade in a variety of biological systems.

Biological Activity: IC_{50} = 2 \mu M.

Solubility: Soluble in DMSO at a concentration of 6.5 mg/mL; soluble at a concentration of 25 mg/mL in anhydrous DMSO; and soluble in ethanol at a concentration of 0.6 mg/mL. It is recommended that this compound be diluted directly from the DMSO stock into buffered media with stirring. Please note that bovine serum albumin at a concentration of 6.6 mg/mL has been observed to prevent the precipitation of PD98059 in aqueous media.

Sterility: This product is not sterile.

Storage: Store, as supplied, at –20°C. Upon solubilization, apportion into working aliquots and store at –20°C. Avoid repeated freeze/thaw cycles. Solutions are stable at –20°C for up to three months.

Related Products:
- MEK1&2 [pS^{222}] antibody, Cat. # 44-452
- MEK2 [pT^{394}] (human) antibody, Cat. # 44-466
- MEK1 [pT^{392}] antibody, Cat. # 44-458
- MEK2 [pT^{394}] (murine) antibody, Cat. # 44-468
- MEK1 [pS^{398}] antibody, Cat. # 44-460
- c-Raf [pY^{340/341}] antibody, Cat. # 44-506
- MEK1 [pT^{388}] antibody, Cat. # 44-462
- ERK1&2 [pTpY^{185/187}] antibody, Cat. # 44-680

References:

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