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PD184352



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Background PD184352 (CI-1040) is a highly potent and selective noncompetitive MEK inhibitor with an IC₅₀ of 17 nM

for MEK1 (1). Treatment of cells with PD184352 leads to suppression of MAPK activation (1-4) and potently inhibits the proliferation of cells harboring the B-Raf mutation V600E (2,3). Researchers have

shown that PD184352 effectively inhibits MEK5, although not as potently as MEK1 (4).

Molecular Formula C₁₇H₁₄ClF₂IN₂O₂₂
Molecular Weight 478.66 g/mol

Purity >99%

CAS 212631-79-3

Solubility Soluble in DMSO at 50mg/ml and EtOH at 8.3mg/ml.

Storage Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical

is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to

avoid multiple freeze/thaw cycles.

Directions for Use PD184352 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute the 5 mg in 1044.6 µl

DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used as a pretreatment at 0.1-10 μ M for 0.5-1 hr prior to treating with a stimulator or is used alone with varying treatment times lasting up to 24 hr. Soluble in DMSO at 25 mg/ml and ethanol at 8 mg/ml with warming; poorly soluble in water with maximum solubility in water at ~5-10 μ M.

Background References

- 1. Sebolt-Leopold, J.S. et al. (1999) Nat Med 5, 810-6.
- 2. Liu, D. et al. (2007) J Clin Endocrinol Metab 92, 4686-95.
- 3. Solit, D.B. et al. (2006) Nature 439, 358-62.
- 4. Mody, N. et al. (2001) FEBS Lett 502, 21-4.

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