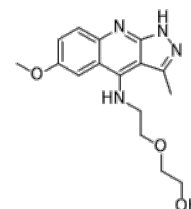


Product Name : SCH51344
Cat. No. : PC-27893
CAS No. : 171927-40-5
Molecular Formula : C₁₆H₂₀N₄O₃
Molecular Weight : 316.36
Target : Ras
Solubility : 10 mM in DMSO



Biological Activity

SCH51344 (SCH 51344) is a potent inhibitor of RAS transformation, specifically blocks membrane ruffling induced by activated forms of H-RAS, K-RAS, N-RAS and RAC, also potently inhibits MTH1 (NUDT1) with IC₅₀ of 215 nM, 410 nM, and 675 nM for MTH1 substrates dGTP, 8-oxo-dGTP, and 2-OH-dATP.

SCH51344 derepress human smooth muscle alpha-actin promoter activity in ras-transformed cells.

SCH51344 is a potent inhibitor of the anchorage-independent growth of human tumor lines known to contain multiple genetic alterations in addition to activated ras genes.

SCH51344 inhibits the ability of v-abl, v-mos, H-ras, v-raf, and mutant active MAP kinase kinase-transformed NIH 3T3 cells to grow in soft agar.

SCH51344 specifically blocks membrane ruffling induced by activated forms of H-RAS, K-RAS, N-RAS and RAC.

SCH51344 is effective in inhibiting the anchorage-independent growth of Rat-2 fibroblast cells transformed by the three forms of oncogenic RAS and RAC V12.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com