

Product Data Sheet

Product Name: AEM1
Cat. No.: GC42743

Chemical Properties

Cas. No. 1030123-90-0

SMILES FC(C=C1)=CC=C1C2=CSC3=C2C(NCC4=CC=C(OCO5)C5=C4)=NC=N3

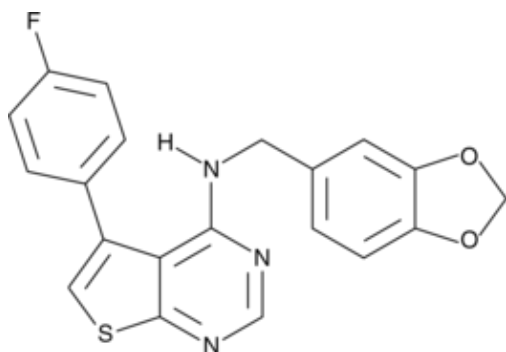
Formula C₂₀H₁₄FN₃O₂S M.Wt 379.4

Solubility DMF: 30 mg/mL, DMF:PBS (pH 7.2) (1:4): 0.2 mg/mL, DMSO: 20 mg/mL, Ethanol: 0.25 mg/mL
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Cancer cell survival appears partly dependent on antioxidative enzymes, whose expression is regulated by the Keap1-Nrf2 pathway, to quench potentially toxic reactive oxygen species generated by their metastatic transformation. AEM1 is an inhibitor of Nrf2-induced gene transcription at the antioxidant response element in cells at 1 to 10 µM. It sensitizes lung carcinoma A549 cells to chemotherapeutic agents and inhibits the growth of A549 cells in vitro and in vivo in animals. The effectiveness of AEM1 against cancer cells is restricted to those harboring mutations that render Nrf2 constitutively active.

Caution: Product has not been fully validated for medical applications. For research use only.

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