

Product Data Sheet

Product Name: SGK1 Inhibitor

Cat. No.: GC40046

Chemical Properties

Cas. No. 1426214-51-8

SMILES ClC1=CC=CC(S(=O)(=O)NC2=CC=C(C3=CN=C(C(N)=NN4)C4=N3)C=C2)(=O)=O)=C1Cl

Formula C₁₇H₁₂Cl₂N₆O₂S

M.Wt 435.3

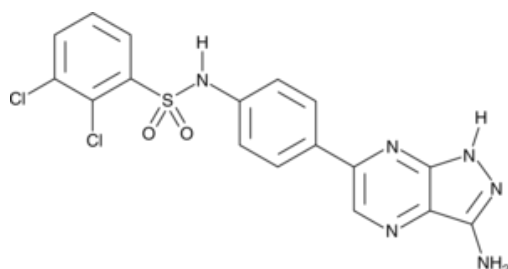
Solubility Soluble in DMSO

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

SGK1 inhibitor is an inhibitor of serum- and glucocorticoid-regulated kinase 1 (SGK1) and SGK2 (IC₅₀s = 4.8 and 2.8 nM, respectively). It is selective for SGK1 and SGK2 over SGK3 in the presence of a high concentration of ATP (IC₅₀s = 0.442, 0.924, and 23.3 μM, respectively) and only inhibits AMPK by more than 50% in a panel of 60 additional kinases when used at a concentration of 1 μM. SGK1 inhibitor prevents phosphorylation of GSK3β in U2OS cells with an IC₅₀ value of 1.4 μM. It decreases cell viability in BYL719-insensitive HCC1954 cells when used in combination with the PI3Kα inhibitor BYL719. SGK1 inhibitor (50 mg/kg) reduces tumor growth in an HCC1954 mouse xenograft model when administered in combination with BYL719.

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

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