

Product Data Sheet

Product Name: CAY10722

Cat. No.: GC43201

Chemical Properties

Cas. No. 388086-13-3

SMILES C1C(C=C(Cl)C=C1)=C1C2=NC3=CC(NC(CC4=CC=CC=C4)=O)=CC=C3O2

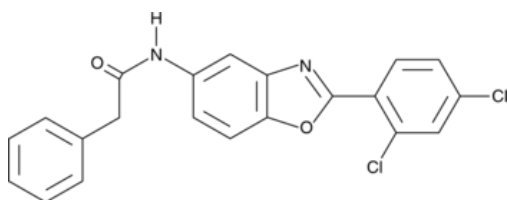
Formula C₂₁H₁₄Cl₂N₂O₂ M.Wt 397.3

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO: PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: slightly soluble
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

CAY10722 is an inhibitor of sirtuin 3 (SIRT3), a class III HDAC (71% inhibition at 200 μM). SIRT3 is involved in modulating metabolic homeostasis as a NAD⁺-dependent protein deacetylase in the mitochondria. SIRT3 functions as either an oncogene or tumor suppressor, depending on cancer cell type. High SIRT3 expression in patient-derived esophageal cancer tissues is associated with shorter survival and, in mice, downregulation leads to a lower tumor load. In contrast, low SIRT3 expression in patient-derived breast cancer cells is correlated with shorter survival.

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

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