

Product Data Sheet

Product Name: CAY10578

Cat. No.: GC43177

Chemical Properties

Cas. No. 19231-60-8

SMILES OC(=O)CN1C(=O)c2c(C1=O)c(I)c(I)c(I)c2I

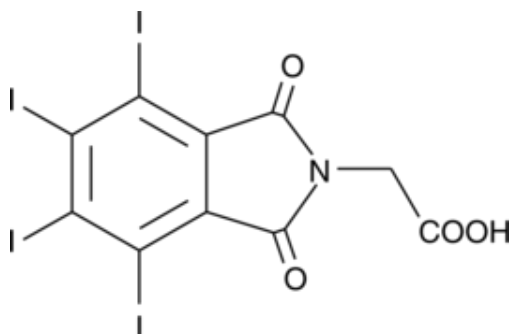
Formula C₁₀H₃I₄NO₄ M.Wt 708.8

Solubility DMF: 10 mg/ml, DMF:PBS (pH 7.2) 1:5: 0.15 mg/ml, DMSO: 5 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

Casein Kinase 2 (CK2) is a constitutive protein kinase involved in many signal transduction pathways. CK2 is known to negatively regulate apoptosis, and its activity is increased in many proliferating tissues and tumors, which lends promise as an anticancer drug target. CAY10578 is a potent inhibitor of CK2 with an IC₅₀ value of 0.3 μM. This compound is ATP competitive, displaying a K_i value of 0.2 μM and only minimally inhibits the activities of other protein kinases (e.g., GSK3, Cdk5, and MSK1).

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

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