
Product Data Sheet

Product Name: DDR1-IN-1 dihydrochloride

Cat. No.: GC35822

Chemical Properties

Cas. No. 1780303-76-5

SMILES CC1=C(C=C(C=C1)NC(C2=CC=C(C(C(F)(F)F)=C2)CN3CCN(CC3)CC)=O)OC4=CC(C5)=C(C=C4)NC5=O.Cl.ClFormula C₃₀H₃₃Cl₂F₃N₄O₃ M.Wt 625.51

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**

DDR1-IN-1 is a potent and selective discoidin domain receptor 1 (DDR1) receptor tyrosine kinase inhibitor with IC₅₀ of 105 nM, about 3-fold selectivity over DDR2.

In U2OS cells, DDR1-IN-1 inhibits basal DDR1 autophosphorylation with EC₅₀ of 86 nM, and demonstrates stronger inhibition of DDR1 autophosphorylation in the absence of collagen stimulation. In a panel of different cancer cell lines that possess DDR1 gain-of-function mutations and/or overexpression, DDR1-IN-1, dose not inhibit proliferation below a concentration of 10 μM, while GSK2126458 potentiates the antiproliferative activity of DDR1-IN-1. [1]

[1] Kim HG, et al. ACS Chem Biol. 2013, 8(10), 2145-2150.

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

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