
Product Data Sheet

Product Name: DDR1-IN-4

Cat. No.: GC64268

Chemical Properties

Cas. No. 2125676-13-1

Formula C₂₃H₂₀BrF₃N₆O₃

M.Wt 565.34

Solubility DMSO : 250 mg/mL (442.21 mM; Need ultrasonic) 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-4 (Compound 2.45) is a selective and potent Discoidin Domain Receptor 1 (DDR1) autophosphorylation inhibitor, with IC₅₀ values of 29 nM and 1.9 μM for DDR1 and DDR2, respectively[1].

DDR1-IN-4 (Compound 2.45) shows a clear dose-dependent inhibition of DDR1 phosphorylation in HT1080 cells overexpressing DDR1, with greater than 70% inhibition of phosphorylation at a concentration of 1 μM, and retaining selectivity over inhibition of DDR2[1].

DDR1-IN-4 (Compound 2.45, ip, 90 mg/kg) preserves renal function and reduces tissue damage in Col4a3^{-/-} mice (the preclinical mouse model of Alport syndrome) when employing a therapeutic dosing regime, indicating the real therapeutic value of selectively inhibiting DDR1 phosphorylation in vivo[1].

[1]. Hans Richter, et al. DNA-Encoded Library-Derived DDR1 Inhibitor Prevents Fibrosis and Renal Function Loss in a Genetic Mouse Model of Alport Syndrome. ACS Chem Biol. 2019 Jan 18;14(1):37-49.

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

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