

Product Data Sheet

Product Name: DDR Inhibitor

Cat. No.: GC33361

Chemical Properties

Cas. No. 1644069-80-6

SMILES O=C(C1=CN=C2C=CC=CN21)NC3=CC(CNC(NC4=CC=CC(F)=C4)=O)=CC=C3C

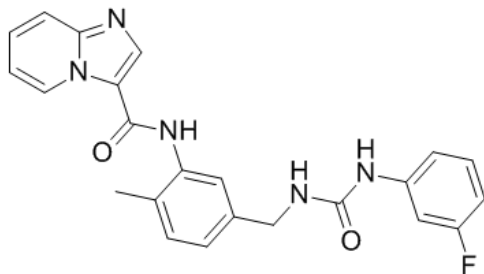
Formula $C_{23}H_{20}FN_5O_2$ M.Wt 417.44

Solubility DMSO : 65 mg/mL (155.71 mM); Water : < 0.1 mg/mL (insoluble) 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



Protocol

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

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Kinase experiment: Europium Kinase binding assay is used. Compounds (DDR Inhibitor, etc.) are incubated with 0.5 nM DDR1 or 0.25 nM DDR2 for 1 hour at room temperature in low volume black 384 well assay plates containing 5 nM or 10 nM Kinase Tracer 178 respectively and 2 nM Europium labelled anti-GST antibody in assay buffer (50 mM HEPES pH 7.5, 10 mM MgCl₂, 1 mM EGTA and 0.01 % BRIJ35). The ratio of fluorescence emission 665 nm/615 nm after excitation at 340 nm is obtained. IC₅₀ values are determined from dose-response plots using nonlinear least-squares analysis[1].

References:

[1]. Gordon Saxty, et al. Imidazo-condensed bicycles as inhibitors of discoidin domain receptors (ddrs)

Background

DDR Inhibitor is a potent discoidin domain receptor (DDR) inhibitor, with an IC₅₀ of 3.3 nM for DDR2, and shows 53% inhibition on DDR1 at 1.5 nM.

DDR Inhibitor (Example 6) is a potent DDR inhibitor, with an IC₅₀ of 3.3 nM for DDR2, and shows 53% inhibition on DDR1 at 1.5 nM[1].

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