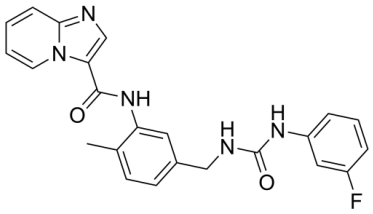
Data Sheet

Product Name:	DDR Inhibitor
Cat. No.:	CS-W020277
CAS No.:	1644069-80-6
Molecular Formula:	$C_{23}H_{20}FN_5O_2$
Molecular Weight:	417.44
Target:	Discoidin Domain Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	DMSO : 65 mg/mL (155.71 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

DDR Inhibitor is a potent **discoidin domain receptor (DDR)** inhibitor, with an **IC_{50}** of 3.3 nM for DDR2, and shows 53% inhibition on DDR1 at 1.5 nM. IC50 & Target: IC50: 3.3 nM (DDR2)[1]
IC53: 1.5 nM (DDR1)[1] ***In Vitro:*** DDR Inhibitor (Example 6) is a potent DDR inhibitor, with an IC_{50} of 3.3 nM for DDR2, and shows 53% inhibition on DDR1 at 1.5 nM[1].

PROTOCOL (Extracted from published papers and Only for reference)

Kinase Assay: [1]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 $MgCl_2$, 1 mM EGTA and 0.01 % BRIJ35). The ratio of fluorescence emission **665 nm/615 nm** after excitation at **340 nm** is obtained. IC_{50} 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)

CAIndexNames:

Imidazo[1,2-a]pyridine-3-carboxamide, N-[5-[[[[(3-fluorophenyl)amino]carbonyl]amino]methyl]-2-methylphenyl]-

SMILES:

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

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

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