Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

FIIN-2

Catalog No: tcsc5343

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
1633044-56-0

Formula:
$C_{35}H_{38}N_8O_4$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
FGFR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (47.26 mM)

Observed Molecular Weight:
634.73

Product Description

FIIN-2 is an irreversible inhibitor of **FGFR** with an **IC_{50}** of 3.1, 4.3, 27, and 45 nM for FGFR1, FGFR2, FGFR3 and FGFR4, respectively.

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IC50 & Target: IC50: 3.1 nM (FGFR1), 4.3 nM (FGFR2), 27 nM (FGFR3), 45 nM (FGFR4)[1]

In Vitro: FIIN-2 potently inhibits WT FGFRs (EC_{50}s in the 1- to 93-nM range) and the gatekeeper mutant of FGFR2 (EC_{50} of 58 nM). FIIN-2 also moderately inhibits EGFR, with an IC_{50} of 204 nM. FIIN-2 inhibits proliferation of FGFR1-4 Ba/F3 cells with EC_{50}s in the single- to double-digit nanomolar range and are especially potent against FGFR2, with EC_{50}s in the 1-nM range. FIIN-2 shows good potency against gatekeeper mutant V564F[1].

In Vivo: Treatment of fish in the embryonic state with either FIIN-2 causes defects to the posterior mesoderm similar to the phenotypes reported following genetic knockdown of FGFR or treatment with other reported FGFR inhibitors. FIIN-2 causes mild or severe phenotypes to the tail morphogenesis in all treated embryonic zebrafish[1].