

Product Data Sheet

Product Name: FGFR4-IN-1

Cat. No.: GC19155

Chemical Properties

Cas. No. 1708971-72-5

SMILES O=C(N1CCCC2=C1N=C(C=O)C(CN3C(COCC3)=O)=C2)NC4=NC=C(C#N)C(NCCOC)=C4

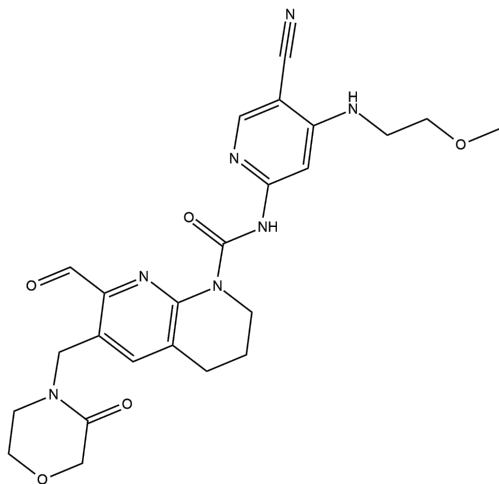
Formula $C_{24}H_{27}N_7O_5$ M.Wt 493.52

Solubility DMSO : 6.4 mg/mL (12.97 mM) 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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Cell experiment: Methylene blue staining proliferation assay (MBS): The effect of compounds on cell proliferation is assessed using HuH-7 hepatocellular carcinoma cells are cultured in the vendor-recommended medium. Specifically, 5000 cells/well are seeded in 96-well tissue culture plates in a total media volume of 100 μ L/well and increasing compound dilutions or DMSO are added 24 hours thereafter in triplicates. 72 hours after compound addition, cells are fixed by adding 25 and incubated for 10 minutes at room temperature. Cells are washed three times with H₂O. Cells are washed 3 times with H₂O, 200 mL/well and then lysed by adding 200 mL/well of 3% HCl for 30 minutes at room temperature with shaking. Optical density is measured at A₆₅₀ nm. The concentration of compound providing 50% of proliferation inhibition with respect to DMSO-treated cells is determined (IC₅₀) using XLFit software.

References:

[1]. Ring-fused bicyclic pyridyl derivatives as fgfr4 inhibitors. WO 2015059668 A1

Background

FGFR4-IN-1 is a potent inhibitor of FGFR4 with IC₅₀ of 0.7 nM.

FGFR4-IN-1 significantly inhibits the proliferation of HuH-7 hepatocellular carcinoma cells with IC₅₀ of 7.8 nM[1].

References:

[1]. Ring-fused bicyclic pyridyl derivatives as fgfr4 inhibitors. WO 2015059668 A1

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