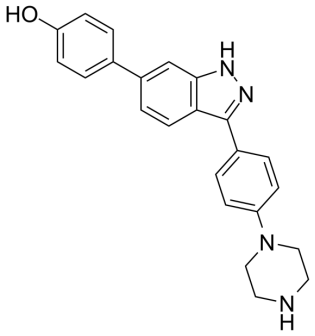
FGFR2-IN-2



Cat. No.:	HY-145231
CAS No.:	2677709-81-6
Molecular Formula:	$C_{23}H_{22}N_4O$
Molecular Weight:	370.45
Target:	FGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (168.71 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6994 mL	13.4971 mL	26.9942 mL
	5 mM	0.5399 mL	2.6994 mL	5.3988 mL
	10 mM	0.2699 mL	1.3497 mL	2.6994 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.61 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FGFR2-IN-2 (Compound 38) is a selective FGFR2 inhibitor with IC_{50}s of 389, 29, and 758 nM for FGFR1, FGFR2, and FGFR3, respectively[1].

IC_{50} & Target			
	FGFR2 29 nM (IC_{50})	FGFR1 389 nM (IC_{50})	FGFR3 758 nM (IC_{50})

REFERENCES

[1]. Lewis D Turner, et al. From Fragment to Lead: De Novo Design and Development toward a Selective FGFR2 Inhibitor. J Med Chem. 2022 Jan 27;65(2):1481-1504.

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

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