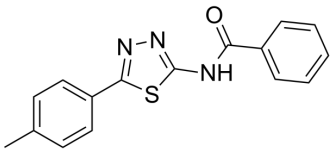
FAK-IN-7

Cat. No.:	HY-148109
CAS No.:	19948-85-7
Molecular Formula:	$C_{16}H_{13}N_3OS$
Molecular Weight:	295.36
Target:	FAK
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 : 10 mg/mL (33.86 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3857 mL	16.9285 mL	33.8570 mL
	5 mM	0.6771 mL	3.3857 mL	6.7714 mL
	10 mM	0.3386 mL	1.6928 mL	3.3857 mL

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

BIOLOGICAL ACTIVITY

Description

FAK-IN-7 (compound 5r) is a FAK inhibitor (IC_{50}=11.72 μM). FAK-IN-7 has good anti-proliferative activity and can be used in cancer research[1].

IC_{50} & Target

FAK
11.72 μM (IC_{50})

In Vitro

FAK-IN-7 (0-10 μM; 48 h) inhibits MCF-7 and B16-F10 cells proliferation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	MCF-7 and B16-F10 cells
Concentration:	0-10 μM
Incubation Time:	48 h

Result:	Exhibited anti-proliferative activity against MCF-7 and B16-F10 cells with IC_{50} values of 3.57 and 3.52 μM, respectively.

REFERENCES

[1]. Yang XH, et al. Synthesis, biological evaluation, and molecular docking studies of 1,3,4-thiadiazol-2-amide derivatives as novel anticancer agents. Bioorg Med Chem. 2012 May 1;20(9):2789-95.

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