(Z)-FeCP-oxindole

Cat. No.: HY-108444

CAS No.: 1137967-28-2

Molecular Formula: $C_{19}H_{15}FeNO$

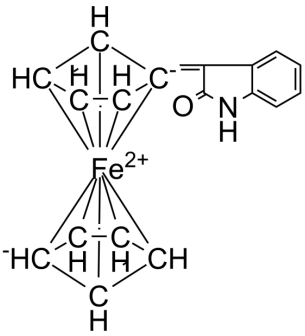
Molecular Weight: 329.17

Target: VEGFR

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 : 50 mg/mL (151.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0379 mL	15.1897 mL	30.3794 mL
	5 mM	0.6076 mL	3.0379 mL	6.0759 mL
	10 mM	0.3038 mL	1.5190 mL	3.0379 mL

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

BIOLOGICAL ACTIVITY

Description

(Z)-FeCP-oxindole is a selective human vascular endothelial growth factor receptor 2 (VEGFR2) inhibitor with an IC_{50} value of 200 nM. (Z)-FeCP-oxindole can significantly inhibit VEGFR1 and PDGFRa or b at 10 μM. (Z)-FeCP-oxindole has some anticancer activity, acting on B16 murine melanoma lines with IC_{50} less than 1 μM[1].

REFERENCES

[1]. John Spencer, et al. Synthesis and evaluation of metallocene containing methylidene-1,3-dihydro-2H-indol-2-ones as kinase inhibitors. Metallomics. 2011 Jun;3(6):600-8.

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

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