

Product Name: (Z)-FeCP-oxindole

Catalog No.: 3883

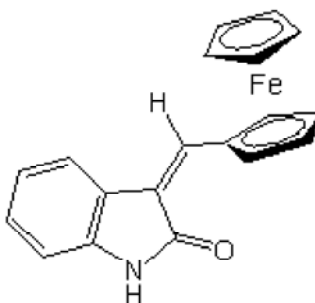
Batch No.: 1

CAS Number: 1137967-28-2

IUPAC Name: (Z)-3-Ferrocenylmethylidene-1,3-dihydro-2H-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅FeNO.¼H₂O
Batch Molecular Weight: 333.67
Physical Appearance: Brown solid
Solubility: DMSO to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.39	4.68	4.2
Found	68.41	4.51	4.28

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective inhibitor of human vascular endothelial cell growth factor receptor 2 (VEGFR-2) (IC₅₀ = 220 nM). Displays anticancer activity (IC₅₀ < 1 μM against B16 murine melanoma lines). Does not significantly inhibit VEGFR1 or PDGFRα or β at a concentration of 10 μM. Geometric Isomer also available.

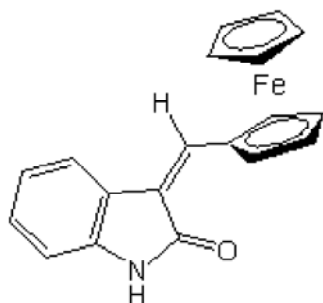
Physical and Chemical Properties:

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References:

Spencer et al (2011) Synthesis and evaluation of metallocene containing methylene-1,3-dihydro-2H-indol-2-ones as kinase inhibitors *Metallomics* **3** 600. PMID: 21359402.

Spencer et al (2009) Structural and biological investigation of ferrocene-substituted 3-methylidene-1,3-dihydro-2H-indol-2-ones. *Dalton Transact.* **6** 918.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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