

**Product Name:** (E)-FeCP-oxindole

**Catalog No.:** 3882

**Batch No.:** 1

**CAS Number:** 884338-18-5

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>15</sub>FeNO.¼H<sub>2</sub>O

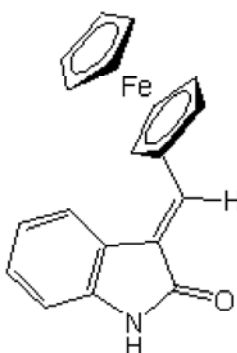
**Batch Molecular Weight:** 333.67

**Physical Appearance:** Brown solid

**Solubility:** DMSO to 5 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.39	4.68	4.2
Found	68.44	4.61	4.24

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) (IC<sub>50</sub> = 214 nM). Displays anticancer activity (IC<sub>50</sub> < 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.

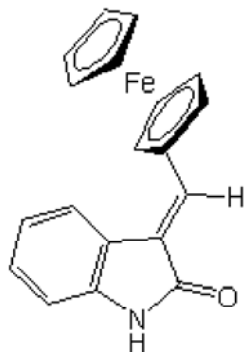
**Physical and Chemical Properties:**

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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

**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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