

**Product Name:** Cediranib

**Catalog No.:** 7454

**Batch No.:** 1

CAS Number: 288383-20-0

IUPAC Name: 4-[(4-Fluoro-2-methyl-1*H*-indol-5-yl)oxy]-6-methoxy-7-[3-(1-pyrrolidinyl)propoxy]quinazoline

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>27</sub>FN<sub>4</sub>O<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

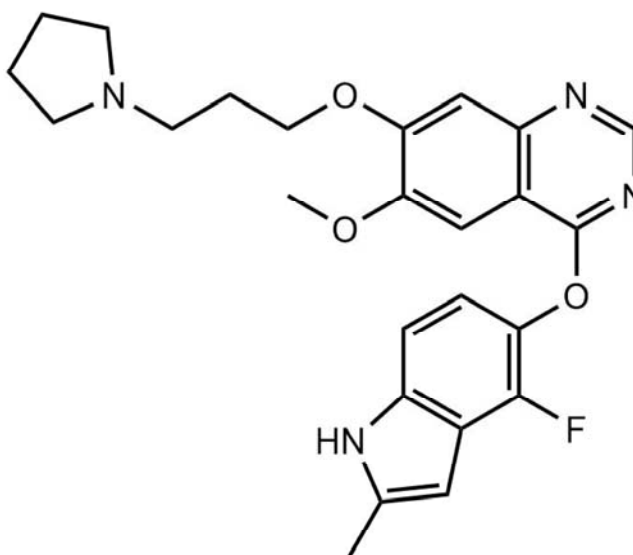
**Batch Molecular Weight:** 464.02

**Physical Appearance:** Brown solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at -20°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	64.71	6.19	12.07
Found	64.37	6.03	11.99

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

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**Description:**

Cediranib is a highly potent and ATP-competitive inhibitor of VEGFR2 (IC<sub>50</sub> = <1 nM). Cediranib also potently inhibits PDGFR1, VEGFR3, VEGFR1, c-Kit, PDGFR2 and FGFR1 (IC<sub>50</sub> values are 2, 3, 5, 5, 26 and 36 nM, respectively), and inhibits CSF-1R, Src, and Abl (IC<sub>50</sub> values are 110, 130 and 260 nM, respectively). Cediranib induces hypoxia, prevents VEGF-induced angiogenesis and suppresses homology-directed DNA repair (HDR) factors BRCA1/2 and RAD51. Cediranib decreases cell motility, proliferation and cell viability. Cediranib is active in vivo.

**Physical and Chemical Properties:**

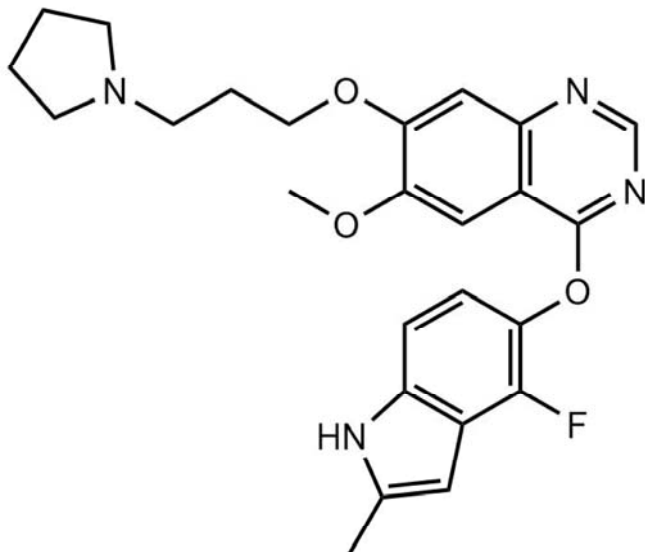
Batch Molecular Formula: C<sub>25</sub>H<sub>27</sub>FN<sub>4</sub>O<sub>3</sub>·¾H<sub>2</sub>O

Batch Molecular Weight: 464.02

Physical Appearance: Brown solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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.

**References:**

**Momeny et al** (2020) Cediranib, an inhibitor of vascular endothelial growth factor receptor kinases, inhibits proliferation and invasion of prostate adenocarcinoma cells *Eur.J.Pharmacol.* **882**. PMID: 32593665.

**Kaplan et al** (2019) Cediranib suppresses homology-directed DNA repair through down-regulation of BRCA1/2 and RAD51. *Sci.Transl.Med.* **11**. PMID: 31092693.

**Wedge et al** (2005) AZD2171: a highly potent, orally bioavailable, vascular endothelial growth factor receptor-2 tyrosine kinase inhibitor for the treatment of cancer. *Cancer Res.* **65** 4389. PMID: 15899831.

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