

**Product Name:** CAM 833

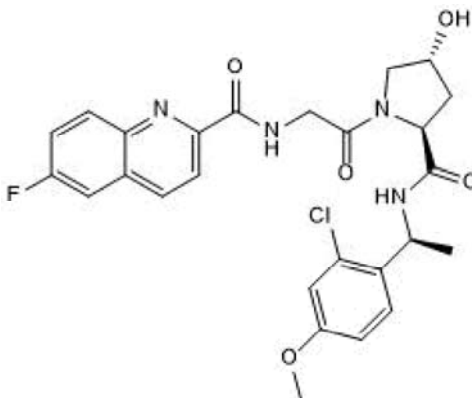
**Catalog No.:** 7457

**Batch No.:** 1

**IUPAC Name:** *N*-(2-((2*S*,4*R*)-2-(((*S*)-1-(2-Chloro-4-methoxyphenyl)ethyl)carbamoyl)-4-hydroxypyrrolidin-1-yl)-2-oxoethyl)-6-fluoroquinoline-2-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>26</sub>ClFN<sub>4</sub>O<sub>5</sub>  
**Batch Molecular Weight:** 528.97  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 5 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.04	4.95	10.59
Found	58.74	4.97	10.59

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

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**Description:**

CAM 833 a selective orthosteric inhibitor of the BRCA2-RAD51 interaction ( $K_d$  of 366 nM;  $IC_{50}$  of 6  $\mu$ M). CAM 833 has no significant off-target interactions when screened at 10  $\mu$ M in the Cerep ExpresSPanel. It inhibits DNA recombinase RAD51-mediated homologous recombination through binding to RAD51 at the same site as the BRCA2 FxxA motif. In cells, CAM 833 suppresses the assembly of RAD51 into damage-induced filaments at the sites of DNA damage. CAM 833 potentiates radiation-induced cytotoxicity and poly-ADP ribose polymerase (PARP)1 inhibitor-induced growth suppression in BRCA2-wild-type cells. The product is metabolically stable, do... Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

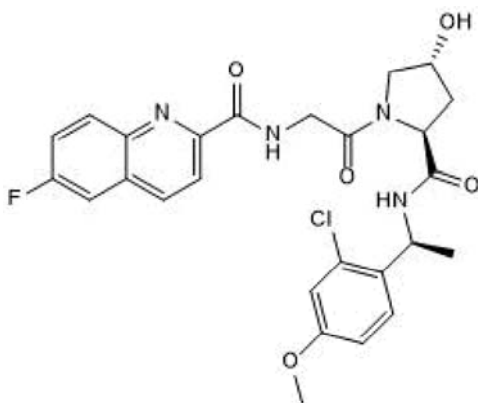
Batch Molecular Formula:  $C_{26}H_{26}ClFN_4O_5$ .

Batch Molecular Weight: 528.97

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**References:**

Scott *et al* (2021) A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. *Cell Chem.Biol.* **28** (6) 835. PMID: 33662256.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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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