

Product Name: CAM 833

Catalog No.: 7457

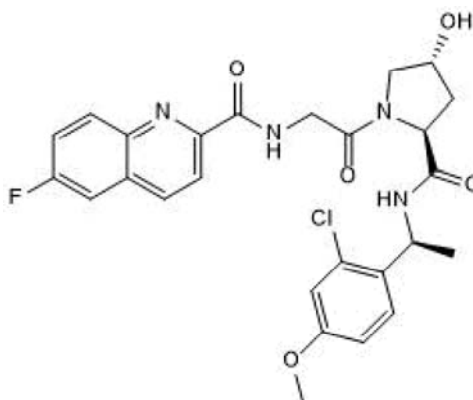
Batch No.: 1

CAS Number: 2758364-02-0

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 ₂₆ H ₂₆ ClFN ₄ O ₅ .
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
¹H 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 μ M). CAM 833 has no significant off-target interactions when screened at 10 μ 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 for full description.

Physical and Chemical Properties:

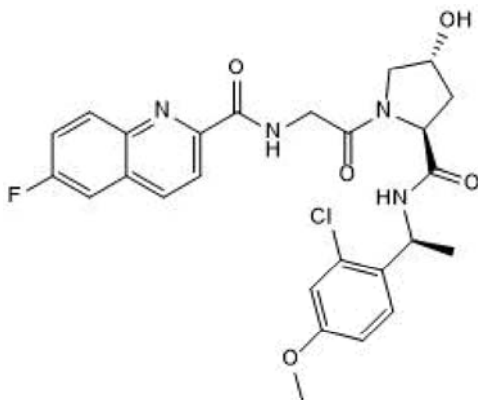
Batch Molecular Formula: C₂₆H₂₆ClFN₄O₅.

Batch Molecular Weight: 528.97

Physical Appearance: White solid

Minimum Purity: ≥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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