

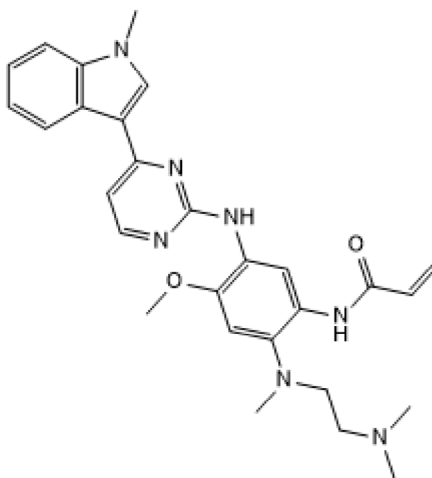
Certificate of Analysis

www.tocris.com

Product Name:	AZD 9291	Catalog No.:	8873	Batch No.:	1
CAS Number:	1421373-65-0				
IUPAC Name:	<i>N</i> -[2-[[2-(Dimethylamino)ethyl]methylamino]-4-methoxy-5-[[4-(1-methyl-1 <i>H</i> -indol-3-yl)-2-pyrimidinyl]amino]phenyl]-2-propenamide				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₃₃ N ₇ O ₂
Batch Molecular Weight:	499.61
Physical Appearance:	Off White solid
Solubility:	DMSO to 50 mM ethanol to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	67.31	6.66	19.62
	Found	67.25	6.79	19.93

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

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Product Name: AZD 9291

Catalog No.: 8873

Batch No.: 1

CAS Number: 1421373-65-0

IUPAC Name: *N*-[2-[[2-(Dimethylamino)ethyl]methylamino]-4-methoxy-5-[[4-(1-methyl-1*H*-indol-3-yl)-2-pyrimidinyl]amino]phenyl]-2-propenamide

Description:

AZD 9291 is a potent mutant-selective EGFR inhibitor (IC₅₀ values are 1 and 12 nM against EGFR mutants L858R/T790M and L858R, respectively). AZD 9291 exhibited nearly 200 times greater potency against L858R/T790M than wild-type EGFR. In vivo, AZD 9291 causes tumor regression in mutant EGFR xenograft models of non-small cell lung cancer (NSCLC) and transgenic mutant T790M EGFR disease models. AZD 9291 is orally bioavailable.

Physical and Chemical Properties:

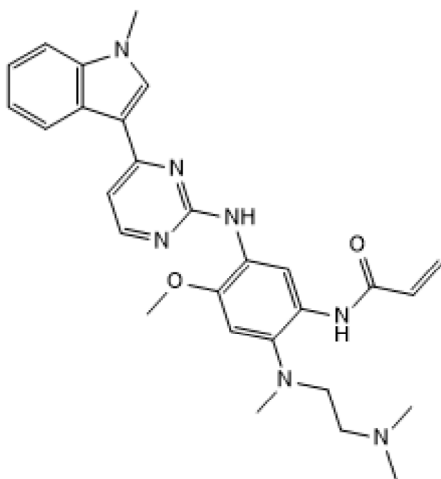
Batch Molecular Formula: C₂₈H₃₃N₇O₂

Batch Molecular Weight: 499.61

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Cross et al (2014) AZD9291, an irreversible EGFR TKI, overcomes T790M-mediated resistance to EGFR inhibitors in lung cancer. *Cancer Discov.* **4** 1046. PMID: 24893891.

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