



Osimertinib

Catalog No: tcsc2018

基	Available Sizes
Size:	5mg
Size:	10mg
Size:	50mg
Size:	100mg
Size:	200mg
Size:	500mg
Size:	1 g
Size:	2 g
Size:	5g
Size:	10g
	Specifications
CAS N 14213	No: 373-65-0
Form	ula: 3 ^N 7 ^O 2
Pathv JAK/ST	vay: AT Signaling;Protein Tyrosine Kinase/RTK
Targe EGFR;	





Purity / Grade:

>98%

Solubility:

DMSO: \geq 30 mg/mL (60.05 mM)

Alternative Names:

AZD-9291; Mereletinib

Observed Molecular Weight:

499.61

Product Description

Osimertinib (AZD-9291) is an irreversible and mutant selective **EGFR** inhibitor with IC_{50} s of 12 and 1 nM against EGFR^{L858R} and EGFR^{L858R/T790M}, respectively.

IC50 & Target: IC50: 1 nM (EGFR^{L858R/T790M}), 12 nM (EGFR^{L858R})^[1]

In Vitro: Osimertinib (AZD-9291) shows similar potency to early generation tyrosine kinase inhibitor (TKIs) in inhibiting EGFR phosphorylation in EGFR cells harboring sensitising EGFR mutants including PC-9 (ex19del), H3255 (L858R) and H1650 (ex19del), with mean IC_{50} values ranging from 13 to 54 nM for AZD-9291. Osimertinib (AZD-9291) also potently inhibits phosphorylation of EGFR in T790M mutant cell lines (H1975 (L858R/T790M), PC-9VanR (ex19del/T790M), with mean IC_{50} potency less than 15 nM^[1].

In Vivo: The tumor-bearing mice are treated with Osimertinib (AZD-9291) (5 mg/kg/day) for one to two weeks. Within days of treatment, 5 of 5 C/L858R mice displays nearly 80% reduction in tumor volume by magnetic resonance imaging MRI after therapy with Osimertinib (AZD-9291), while 5 of 5 mice treated with vehicle shows tumor growth^[1]. Osimertinib (AZD-9291) demonstrates improved rat PK, reduced hERG affinity, and improved IGF1R margins relative to the previously described compounds, and so this compound is selected for further investigation. Osimertinib (AZD-9291) also offers an additional degree of broader chemical and profile diversity when compared to the previously described lead compounds. Upon dosing Osimertinib (AZD-9291) in three efficacy models, The comparable efficacy is observed at relatively low doses (10 mg/kg per day). The excellent efficacy is also observed when Osimertinib (AZD-9291) is dosed at 5 mg/kg per day^[2].



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