

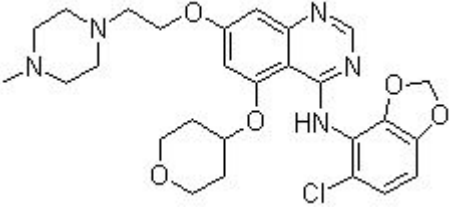


Product Introduction

Saracatinib (AZD0530)

Saracatinib (AZD0530) is a potent Src inhibitor with **IC₅₀** of 2.7 nM, and potent to c-Yes, Fyn, Lyn, Blk, Fgr and Lck; less active for Abl and EGFR (L858R and L861Q). Phase 1/2.

Technical Data:

Molecular Weight (MW):	542.03	
Formula:	C ₂₇ H ₃₂ ClN ₅ O ₅	
Solubility (25°C) * <1 mg/ml means slightly soluble or insoluble:	DMSO 100 mg/mL	
	Water <1 mg/mL	
	Ethanol 100 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	379231-04-6	

Biological Activity

Saracatinib also potently inhibits other Src tyrosine kinase family members including c-Yes, Fyn, Lyn, Blk, Fgr, and Lck with IC₅₀ from 4-10 nM. Saracatinib sensitively inhibits Src Y530F NIH 3T3 with IC₅₀ of 80 nM. Saracatinib significantly impairs the invasion of HT1080 cells through a 3-dimensional collagen matrix and completely inhibits EGF-induced cell scattering in NBT-II bladder cancer cells. ^[1] Saracatinib potent inhibits Src activation in DU145 and PC3 cells, which through inhibition of Y419 phosphorylation. Saracatinib inhibits the growth of prostate cancer including PC3, DU145, CWR22Rv1 and LNCaP, while

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Saracatinib shows low activity in LAPC-4, PZ-HPV7 and RWPE-1 cells. Saracatinib induces cell cycle arrest at G1/S but not caspase 3 cleavages. Saracatinib also significantly inhibits DU145 and PC3 migration in the Boyden chamber. [2] Saracatinib gives a potent and sustained blockage of AKT and enhances the sensitivity to irradiation in A549 and Calu-6 cells. [3] Saracatinib inhibits osteoclast activity, resorption and formation. Saracatinib also reversibly prevents osteoclast precursor migration. [4]

Saracatinib shows great tumor growth inhibition in Src3T3 allografts and a moderate growth delay in Calu-6, MDA-MB-231, AsPc-1 and BT474C xenografts. [1] Saracatinib shows great antitumor activity in orthotopic DU145 xenograft mice at a dose of 25mg/kg (orally administered, daily). [2]

The 1st Src inhibitor to show inhibition of the Src pathway in human tumor tissue.

References

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