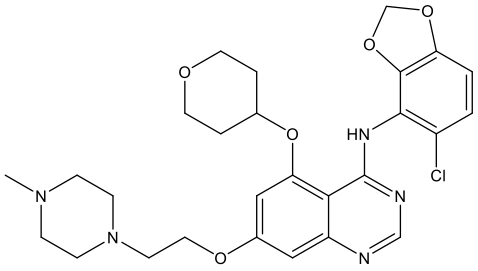
Catalog # 10-2901

Saracatinib

CAS# 379231-04-6

N-(5-Chloro-1,3-benzodioxol-4-yl)-7-[2-(4-methyl-1-piperazinyl)ethoxy]-5-[(tetrahydro-2H-pyran-4-yl)oxy]-4-quinazolinamine; AZD0530

Lot # X109727



Potent and selective inhibitor of Src family kinases, IC_{50}=4-10 nM for Src, c-Yes, Fyn, Lyn, Blk, Fgr and Lck.[1] Demonstrates potent antimigratory, anti-invasive and antiproliferative activity and inhibits metastasis in a mouse model of bladder cancer.[2] Inhibits MERS- CoV at early stages of the viral life cycle at μM concentrations.[3,4] Rescues memory performance and reduces phospho-Tau accumulation in traumatic tauopathy.[5] Rescues memory deficits and synaptic depletion in an Alzheimer's mouse model.[6]

1) Hennequin *et al*. (2006), *N-(5-chloro-1,3-benzodioxol-4-yl)-7-[2-(4-methylpiperazin-1-yl)ethoxy]-5-(tetrahydro-2H-pyran-4-yloxy)quinazolin-4-amine, a novel, highly selective, orally available, dual-specific c-Src/Abl kinase inhibitor*; J. Med. Chem., **49** 6465
2) Green *et al*. (2009), *Preclinical anticancer activity of the potent, oral Src inhibitor AZD0530*; Mol. Oncol., **3** 248
3) de Wispelaere *et al*. (2013), *The small molecules AZD0530 and Dasatinib inhibit dengue virus RNA replication via Fyn kinase*; J. Virol., **87** 7367
4) Shin *et al.* (2018), *Saracatinib Inhibits Middle East Respiratory Syndrome-Coronavirus Replication In Vitro*; Viruses, **10** 283
5) Tang *et al*. (2020), *Fyn kinase inhibition reduces protein aggregation, increases synapse density and improves memory in transgenic mice and traumatic Tauopathy*; Acta Neuropathol. Commun., **8** 96
6) Kaufman *et al*. (2015), *Fyn inhibition rescues established memory and synapse loss in Alzheimer mice*; Ann. Neurol., **77** 953

PHYSICAL DATA

Molecular Weight:	542.03
Molecular Formula:	$C_{27}H_{32}ClN_5O_5$
Purity:	>98% by HPLC NMR: (Conforms)
Solubility:	DMSO (50 mg/mL) and ethanol (54 mg/mL with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462