

**Product Name:** Saracatinib

**Catalog No.:** 7189

**Batch No.:** 2

CAS Number: 379231-04-6

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>27</sub>H<sub>32</sub>ClN<sub>5</sub>O<sub>5</sub>·1¼H<sub>2</sub>O

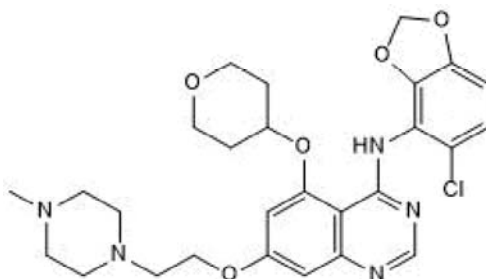
**Batch Molecular Weight:** 564.55

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 20 mM  
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.44	6.16	12.41
Found	57.19	6.11	12.18

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**Description:**

Saracatinib is a potent and selective Src tyrosine kinase family inhibitor (IC<sub>50</sub> = 4-10 nM). Inhibits Src, c-Yes, Fyn, Lyn, Blk, Fgr, and Lck. Exhibits selectivity over other tyrosine kinases (IC<sub>50</sub> values are 30, 66 and 200 nM for v-Abl, EGFR and c-Kit, respectively). Suppresses invasion of HT1080 cells through a collagen matrix and inhibits metastasis in a murine model of bladder cancer. Inhibits the growth of prostate cancer cell lines. Also suppresses MERS-CoV replication at the early stage of replication (EC<sub>50</sub> = 2.9 μM) and displays broad-spectrum activity against other human coronaviruses. Also blocks dengue virus RNA replication. ... Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

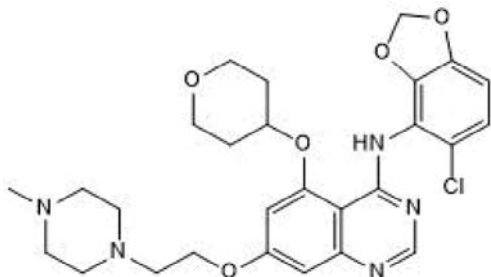
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Batch Molecular Weight: 564.55

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Kaufman et al** (2015) Fyn inhibition rescues established memory and synapse loss in Alzheimer mice. *Ann.Neurol.* **77** 953. PMID: 25707991.

**De Wispelaere et al** (2013) The small molecules AZD0530 and dasatinib inhibit dengue virus RNA replication via Fyn kinase. *J.Virol.* **87** 7367. PMID: 23616652.

**Green et al** (2009) Preclinical anticancer activity of the potent, oral Src inhibitor AZD0530. *Mol.Oncol.* **3** 248. PMID: 19393585.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 mM  
ethanol to 100 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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