

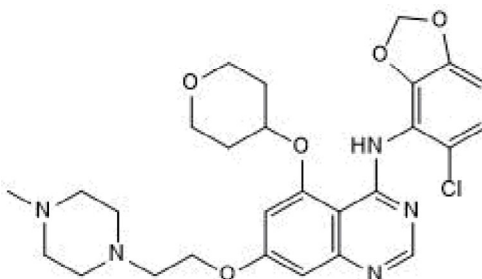
# Certificate of Analysis

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<b>Product Name:</b>	<b>Saracatinib</b>	<b>Catalog No.:</b>	<b>7189</b>	<b>Batch No.:</b>	<b>3</b>
CAS Number:	379231-04-6				
IUPAC Name:	<i>N</i> -(5-Chloro-1,3-benzodioxol-4-yl)-7-[2-(4-methyl-1-piperazinyl)ethoxy]-5-[(tetrahydro-2 <i>H</i> -pyran-4-yl)oxy]-4-quinazolinamine				

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>27</sub> H <sub>32</sub> ClN <sub>5</sub> O <sub>5</sub> .
<b>Batch Molecular Weight:</b>	542.03
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 20 mM ethanol to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen			
Theoretical	59.83	5.95	12.92	
Found	58.87	5.81	12.47	

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

**bio-techne.com**  
info@bio-techne.com  
techsupport@bio-techne.com

**North America**  
Tel: (800) 343 7475

**China**  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**  
Tel: +44 (0)1235 529449

**Rest of World**  
[www.tocris.com/distributors](http://www.tocris.com/distributors)  
Tel: +1 612 379 2956

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**Catalog No.:** 7189

**Batch No.:** 3

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**Description:**

Saracatinib is a potent and selective Src tyrosine kinase family inhibitor ( $IC_{50}$  = 4-10 nM). Inhibits Src, c-Yes, Fyn, Lyn, Blk, Fgr, and Lck. Exhibits selectivity over other tyrosine kinases ( $IC_{50}$  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 ( $EC_{50}$  = 2.9  $\mu$ M) and displays broad-spectrum activity against other human coronaviruses. Also blocks dengue virus RNA replication. ... Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

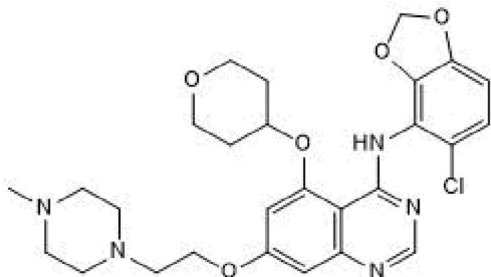
Batch Molecular Formula:  $C_{27}H_{32}ClN_5O_5$ .

Batch Molecular Weight: 542.03

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**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. \*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:**

**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.

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