

**Product Name:** BAY 293 Negative Control

**Catalog No.:** 6906

**Batch No.:** 1

CAS Number: 2244904-69-4

IUPAC Name: (S)-6,7-Dimethoxy-2-methyl-N-[1-[4-[2-[(methylamino)methyl]phenyl]thiophene-2-yl]ethyl]quinazolin-4-amine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub>S·¼H<sub>2</sub>O

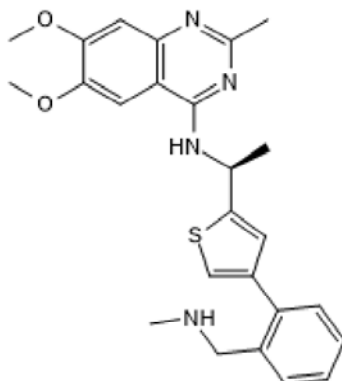
**Batch Molecular Weight:** 453.09

**Physical Appearance:** Light Beige solid

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

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

**HPLC:** Shows 99.5% purity

**Chiral HPLC:** Shows 99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +111.1 (Concentration = 1, Solvent = DMSO)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.27	6.34	12.37
Found	66.49	6.45	12.01

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

**Product Name:** BAY 293 Negative Control

**Catalog No.:** 6906

**Batch No.:** 1

CAS Number: 2244904-69-4

IUPAC Name: (S)-6,7-Dimethoxy-2-methyl-N-[1-[4-[2-[(methylamino)methyl]phenyl]thiophene-2-yl]ethyl]quinazolin-4-amine

**Description:**

Negative control for BAY 293 (Cat. No. 6857)

**Physical and Chemical Properties:**

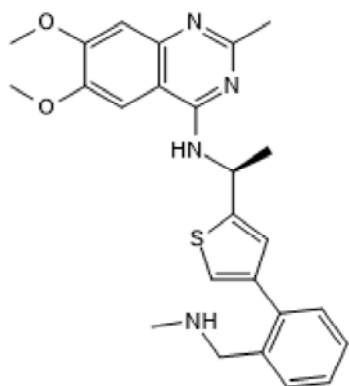
Batch Molecular Formula: C<sub>25</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub>S·¼H<sub>2</sub>O

Batch Molecular Weight: 453.09

Physical Appearance: Light Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 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.

**Licensing Information:**

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the BAY 293 probe summary on the SGC website.

**References:**

Hillig *et al* (2019) Discovery of potent SOS1 inhibitors that block RAS activation via disruption of the RAS-SOS1 interaction. Proc.Natl.Acad.Sci.USA. **116** 2551. PMID: 30683722.

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

Tel:+1 612 379 2956