

## Certificate of Analysis

**Product Name:** SGX 523

**Catalog No.:** 5356

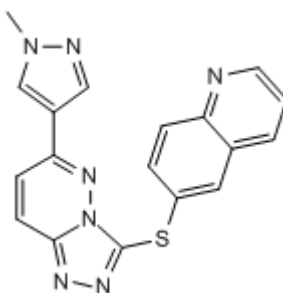
**Batch No.:** 1

CAS Number: 1022150-57-7

IUPAC Name: 6-[[6-(1-Methyl-1*H*-pyrazol-4-yl)-1,2,4-triazolo[4,3-*b*]pyridazin-3-yl]thio]quinoline

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>13</sub>N<sub>7</sub>S  
**Batch Molecular Weight:** 359.41  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.15  | 3.65     | 27.28    |
| Found       | 60.12  | 3.59     | 27.6     |

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

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**Description:**

Potent and selective c-MET kinase inhibitor (IC<sub>50</sub> = 4nM). Exhibits minimal inhibition against a panel of 213 other protein kinases (at 1 μM). Suppresses growth of tumor xenografts derived from human glioblastoma, lung and gastric cancer cells.

**Physical and Chemical Properties:**

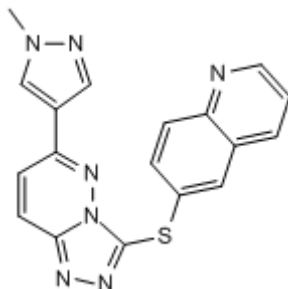
Batch Molecular Formula: C<sub>18</sub>H<sub>13</sub>N<sub>7</sub>S

Batch Molecular Weight: 359.41

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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.

**References:**

**Buchanan *et al*** (2009) SGX523 is an exquisitely selective, ATP-competitive inhibitor of the MET receptor tyrosine kinase with antitumor activity *in vivo*. *Mol.Cancer.Ther.* **8** 3181. PMID: 19934279.

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