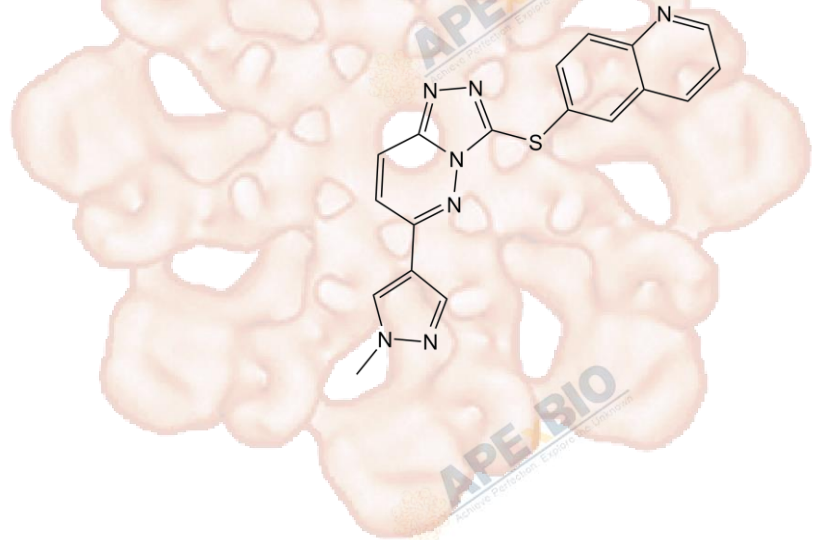


# Product Data Sheet

## SGX-523

<b>Cat. No.:</b>	A1196
<b>CAS No.:</b>	1022150-57-7
<b>Formula:</b>	C <sub>18</sub> H <sub>13</sub> N <sub>7</sub> S
<b>M.Wt:</b>	359.41
<b>Synonyms:</b>	
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	c-MET
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥ 17.95 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.7823 mL	13.9117 mL	27.8234 mL
	<b>5 mM</b>	0.5565 mL	2.7823 mL	5.5647 mL
	<b>10 mM</b>	0.2782 mL	1.3912 mL	2.7823 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

**Shortsummary** MET inhibitor, highly selective, ATP-competitive

**IC<sub>50</sub> & Target** 4 nM (Met)

In Vitro

### Cell Viability Assay

<b>Cell Line:</b>	MDCK cells
<b>Preparation method:</b>	The solubility of this compound in DMSO is > 18 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
<b>Reacting conditions:</b>	0.04, 0.12, 0.36 and 3.0 μM; overnight

	Applications:	In MDCK canine kidney epithelial cells, SGX-523 prevented HGF-induced cell scattering.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Nude mice bearing GTL16 gastric cancer cell xenografts
	Dosage form:	10, 20, 30, 100 mg/kg, b.i.d., or 60 mg/kg, q.d.; p.o.
	Applications:	At the dose of > 10 mg /kg twice daily, SGX523 significantly retarded the growth of GTL16 xenografts. In addition, SGX523 substantially inhibited MET kinase activity.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

1. Shi P, Oh YT, et al. "Met gene amplification and protein hyperactivation is a mechanism of resistance to both first and third generation EGFR inhibitors in lung cancer treatment." *Cancer Lett.* 2016 Jul 19;380(2):494-504. PMID:27450722

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

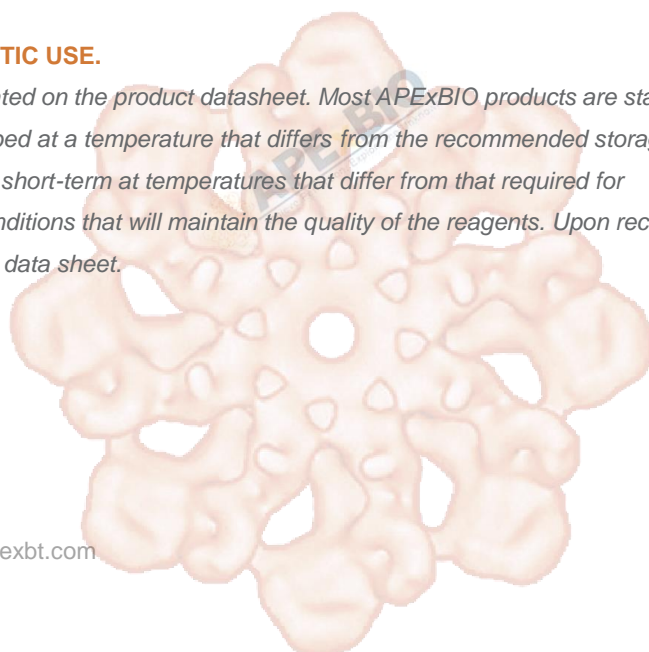
[1]. Buchanan SG1, Hendle J, Lee PS, Smith CR, Bounaud PY, Jessen KA, Tang CM, Huser NH, Felce JD, Froning KJ, Peterman MC, Aubol BE, Gessert SF, Sauder JM, Schwinn KD, Russell M, Rooney IA, Adams J, Leon BC, Do TH, Blaney JM, Sprengeler PA, Thompson DA, Smyth L, Pelletier LA, Atwell S, Holme K, Wasserman SR, Emtage S, Burley SK, Reich SH. SGX523 is an exquisitely selective, ATP-competitive inhibitor of the MET receptor tyrosine kinase with antitumor activity in vivo. *Mol Cancer Ther.* 2009 Dec;8(12):3181-90.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*



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## APEx BIO Technology

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