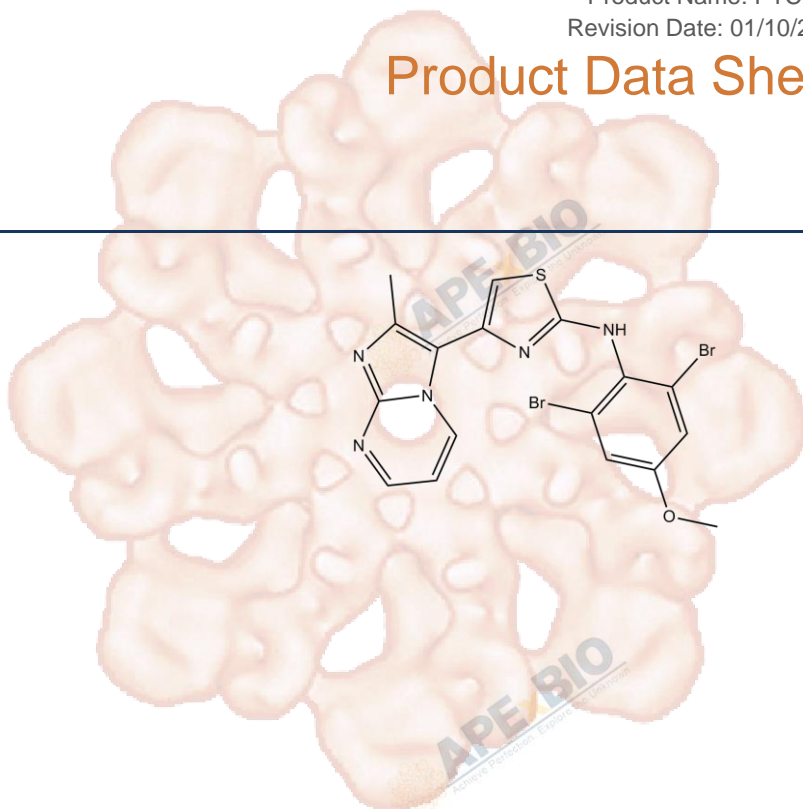


# Product Data Sheet

## PTC-209

<b>Cat. No.:</b>	B3179
<b>CAS No.:</b>	315704-66-6
<b>Formula:</b>	C17H13Br2N5OS
<b>M.Wt:</b>	495.19
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥24.75 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.0194 mL	10.0971 mL	20.1943 mL
	<b>5 mM</b>	0.4039 mL	2.0194 mL	4.0389 mL
	<b>10 mM</b>	0.2019 mL	1.0097 mL	2.0194 mL

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

### Biological Activity

Shortsummary

Bmi-1 inhibitor, cell-permeable and small-molecule

IC<sub>50</sub> & Target

0.5 μM (Bmi-1)

In Vitro

#### Cell Viability Assay

Cell Line:	Human colorectal HCT116 and human fibrosarcoma HT1080 tumor cells
Preparation method:	Limited solubility. 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.
Reacting conditions:	37°C

	Applications:	PTC-209 dose-dependently inhibits not only the UTR-mediated reporter expression but also endogenous BMI-1 expression in human colorectal HCT116 and human fibrosarcoma HT1080 tumor cells (IC50 = ~0.5 $\mu$ M). PTC-209 (between 0.1 and 10 $\mu$ M) also reduces BMI-1 protein levels in a dose-dependent manner with a concomitant reduction in cell growth.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Primary human colon cancer xenograft in nude mice
	Dosage form:	Administered subcutaneously once a day at a dose of 60 mg per kg body weight
	Applications:	For mice transplanted with cells from sample 01, 9 d following the initial drug administration, the tumor volume of the PTC-209–treated group is significantly reduced, continued treatment of animals with PTC-209 for an additional week did not affect the overall health of the mice, and tumors did not increase in size. Likewise, for mice given cells from sample 03, 9 d after PTC-209 initiation, the drug-treated tumors displays a significantly smaller tumor volume as compared to the control tumors.
	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

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

## References

1. Kreso A, van Galen P, Pedley NM et al. Self-renewal as a therapeutic target in human colorectal cancer. Nat Med. 2014 Jan;20(1):29-36.

## 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 APEX BIO 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.*



**APExBIO Technology**

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