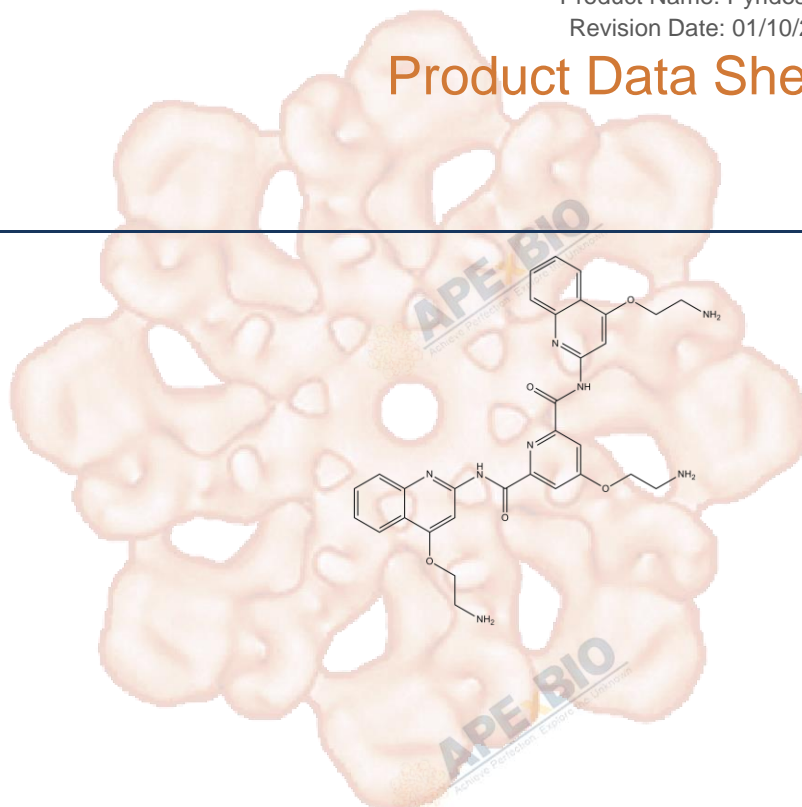


# Product Data Sheet

## Pyridostatin

<b>Cat. No.:</b>	A3742
<b>CAS No.:</b>	1085412-37-8
<b>Formula:</b>	C31H32N8O5
<b>M.Wt:</b>	596.64
<b>Synonyms:</b>	RR-82;RR82;RR 82
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	G-quadruplex
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥20.85 mg/mL in DMSO; ≥30.87 mg/mL in EtOH with gentle warming; ≥9.66 mg/mL in H<sub>2</sub>O with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.6761 mL	8.3803 mL	16.7605 mL
	<b>5 mM</b>	0.3352 mL	1.6761 mL	3.3521 mL
	<b>10 mM</b>	0.1676 mL	0.8380 mL	1.6761 mL

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

### Biological Activity

Shortsummary

Drug used for promoting growth arrest

 IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

Cell Line:	HeLa, HT1080, U2OS and WI-38 cell lines
Preparation method:	The solubility of this compound in DMSO is >20.85 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.

	Reacting conditions:	0–40 $\mu$ M for 72 h
	Applications:	A previous study investigated the growth inhibition after 3 days of exposure to pyridostatin on a panel of four human cell lines: HeLa (adenocarcinoma), HT1080 (fibrosarcoma), U2OS (osteosarcoma), and WI-38 (normal lung fibroblasts), the latter being non-cancerous. Pyridostatin showed growth inhibition at high nanomolar to low micromolar concentrations against these tested cell lines. In addition, pyridostatin exhibited an 18.5-fold selectivity for HT1080 cells over WI-38 cells.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Vlasenok M, Varizhuk A, et al. "Data on secondary structures and ligand interactions of G-rich oligonucleotides that defy the classical formula for G4 motifs." Data Brief. 2017 Feb 12;11:258-265. PMID:28243622
2. Varizhuk A, Ischenko D, et al. "The expanding repertoire of G4 DNA structures. Biochimie." 2017 Apr;135:54-62. PMID:28109719

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

## References

- [1] Müller S, Sanders D A, Di Antonio M, et al. Pyridostatin analogues promote telomere dysfunction and long-term growth inhibition in human cancer cells. Organic & biomolecular chemistry, 2012, 10(32): 6537-6546.

## 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.



---

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

