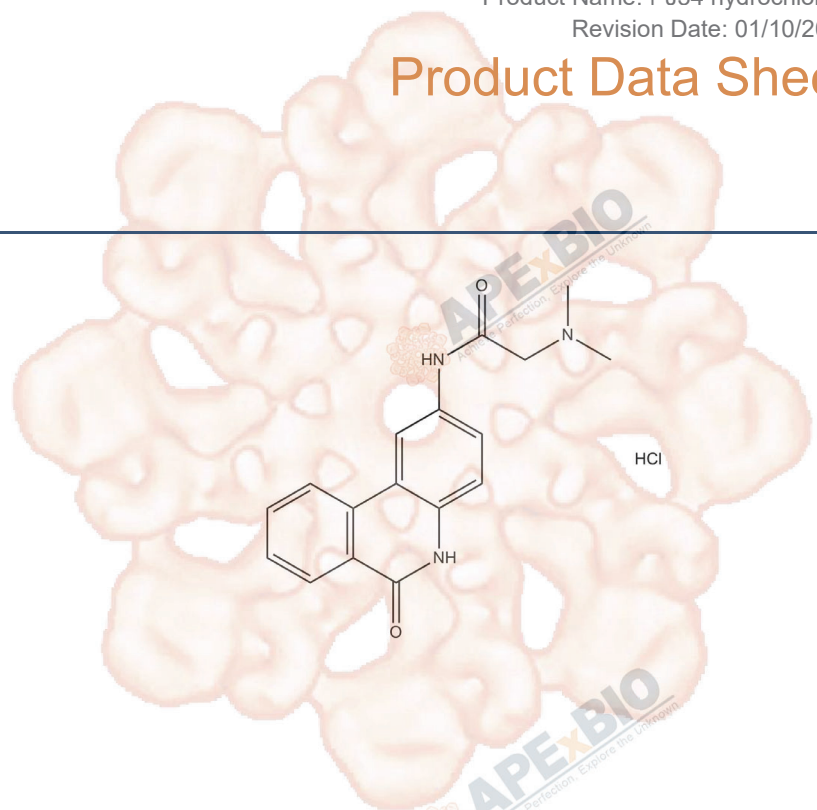


# Product Data Sheet

## PJ34 hydrochloride

<b>Cat. No.:</b>	A4159
<b>CAS No.:</b>	344458-15-7
<b>Formula:</b>	C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub> ·HCl
<b>M.Wt:</b>	331.8
<b>Synonyms:</b>	PJ 34 Hydrochloride
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	PARP
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥ 16.6 mg/mL in DMSO, insoluble in EtOH, insoluble in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	3.0139 mL	15.0693 mL	30.1386 mL
	5 mM	0.6028 mL	3.0139 mL	6.0277 mL
	10 mM	0.3014 mL	1.5069 mL	3.0139 mL

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

### Biological Activity

**Shortsummary** PARP inhibitor, potent and cell-permeable

**IC<sub>50</sub> & Target** 20 nM (EC<sub>50</sub>) (PARP)

In Vitro

#### Cell Viability Assay

<b>Cell Line:</b>	HepG2 cells
<b>Preparation method:</b>	The solubility of this compound in DMSO is >10 mM. 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>	0.5, 1.0 and 2.0 mg/L; 9 days
<b>Applications:</b>	At the doses of 0.5, 1.0 and 2.0 mg/L, PJ34 significantly inhibited HepG2 cell

proliferation on days 6 and 9 of culture.

#### Animal experiment

Animal models: Nude mice bearing HepG2-derived tumors

Dosage form: 3 mg/kg; i.p.; every other day for 21 days

Applications: PJ34 inhibited HepG2 cell-derived tumor growth in nude mice.

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.

In Vivo

## Product Citations

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

## References

[1]. Sheng-Hui Huang, Min Xiong, Xiao-Ping Chen, Zhen-Yu Xiao, Yin-Feng Zhao and Zhi-Yong Huang. PJ34, an inhibitor of PARP-1, suppresses cell growth and enhances the suppressive effects of cisplatin in liver cancer cells. *Oncology Reports* 20: 567-572, 2008

## 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. Shortterm 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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