

**Product Name:** PJ 34 hydrochloride

**Catalog No.:** 3255

**Batch No.:** 5

CAS Number: 344458-15-7

IUPAC Name: *N*-(5,6-Dihydro-6-oxo-2-phenanthridinyl)-2-acetamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub>.HCl.¾H<sub>2</sub>O

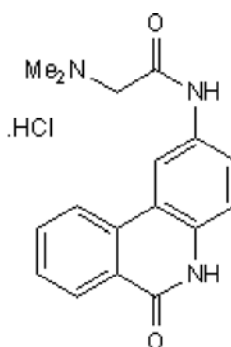
**Batch Molecular Weight:** 345.31

**Physical Appearance:** Off White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.13	5.69	12.17
Found	58.96	5.64	12.19

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

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**Description:**

Potent inhibitor of poly(ADP-ribose) polymerase (PARP) (EC<sub>50</sub> = 20 nM). ~1000-fold more potent than 3-Aminobenzamide (Cat. No. 0788). Protects primary neuronal cells from oxygen-glucose deprivation in vitro and reduces infarct size following focal cerebral ischemia in vivo. Displays protective effects against cisplatin-induced kidney injury. Also displays activity at Pim-1 and Pim-2 kinases at higher concentrations (IC<sub>50</sub> values are 3.7 and 16 μM respectively).

**Physical and Chemical Properties:**

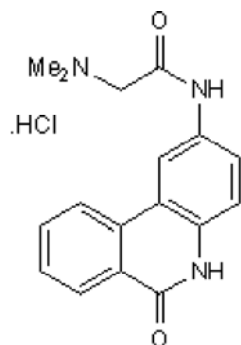
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub>.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 345.31

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 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:**

**Antolin et al** (2012) Identification of Pim kinases as novel targets for PJ34 with confounding effects in PARP biology. *ACS Chem.Biol.* **7** 1962. PMID: 23025350.

**Kim et al** (2012) Poly(ADP-ribose) polymerase 1 activation is required for cisp. nephrotoxicity. *Kidney Int.* **82** 193. PMID: 22437413.

**Gambi et al** (2008) Poly(ADPR)polymerase inhibition and apoptosis induction in cDDP-treated human carcinoma cell lines. *Biochem.Pharmacol.* **75** 2356. PMID: 18468580.

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