

## PJ34 (hydrochloride)

Catalog No: tcsc1462



### Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



### Specifications

**CAS No:**

344458-15-7

**Formula:**

$C_{17}H_{18}ClN_3O_2$

**Pathway:**

Epigenetics;Cell Cycle/DNA Damage

**Target:**

PARP;PARP

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : ≥ 6 mg/mL (18.08 mM)

**Observed Molecular Weight:**

331.8

### Product Description

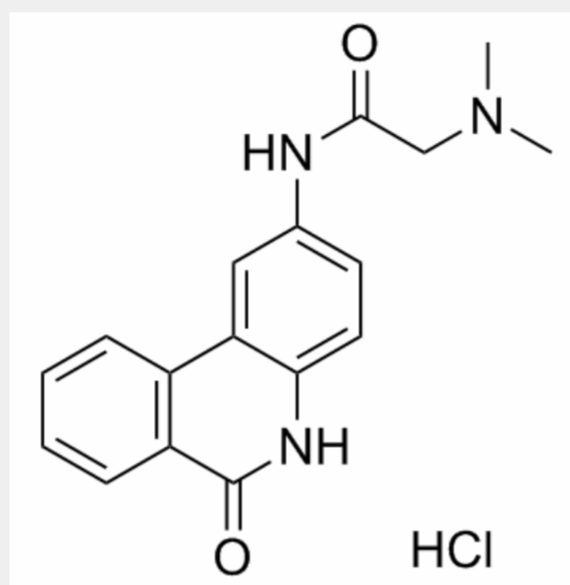
PJ34 hydrochloride is a potent specific inhibitor of **PARP1/2** with **IC<sub>50</sub>** of 110 nM and 86 nM, respectively.

IC<sub>50</sub> & Target: IC<sub>50</sub>: 110 nM (PARP1), 86 nM (PARP2)<sup>[1]</sup>

**In Vitro:**

PJ34 inhibits the PARP enzyme activity with an  $IC_{50}$  of  $110 \pm 1.9$  nM. To compare the neuroprotective properties of other PARP inhibitors in PC12 cells, PJ34 is evaluated using by LDH assay. PJ34 treatment also significantly and concentration dependently attenuates cell death at a concentration ranging from  $10^{-7}$  to  $10^{-5}$  M<sup>[1]</sup>.

**In Vivo:** To compare the potency and efficacy with other PARP inhibitors, PJ34 is evaluated at the doses of 3.2 and 10 mg/kg, respectively. PJ34 at the dose of 3.2 mg/kg significantly reduces cortical damage by 33%; however, 10 mg/kg dosing shows reversed effect (17% reduction)<sup>[1]</sup>. PJ34 (25 mg/kg) reduces the levels of TNF- $\alpha$  mRNA in ischemic animals by 70% and these values in treated mice do not differ from that of sham or naive animals. Treatment of ischemic mice with PJ34 reduces the level of E-selectin mRNA by 81% and that of ICAM-1 mRNA by 54%, compared to vehicle-treated ischemic mice<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!