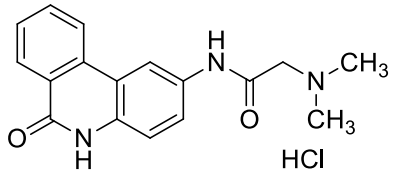
Catalog # 10-2395

PJ-34 · HCl

CAS# 344458-15-7

N-(6-Oxo-5,6-dihydrophenanthridin-2-yl)-(N,N-dimethylamino)acetamide hydrochloride

Lot # X104115



A potent and selective inhibitor of PARP1 and 2. EC_{50} = 20 nM[1]. Reduces ischemia reperfusion injury in a mouse model.[2] Displays anti-inflammatory effects in a transient focal cerebral ischemia mouse model.[3] Causes PARP1 independent, p21 dependent mitotic arrest.[4]

1) Pellicciari *et al*. (2008), *On the way to selective PARP-2 inhibitors. Design, synthesis, and preliminary evaluation of a series of isoquinolinone derivatives*; Chem. Med. Chem., **3** 914
2) Crawford *et al*. (2010), *Postischemic poly (ADP-ribose) polymerase (PARP) inhibition reduces ischemia reperfusion injury in a hind-limb ischemia model*; Surgery, **148** 110
3) Haddad *et al*. (2006), *Anti-inflammatory effects of PJ34, a poly(ADP-ribose) polymerase inhibitor, in transient focal cerebral ischemia in mice*; Br. J. Pharmacol., **149** 23
4) Madison *et al*. (2011), *The PARP inhibitor PJ34 causes a PARP1-independent, p21 dependent mitotic arrest*; DNA Repair, **10** 1003

PHYSICAL DATA

Molecular Weight:	331.81
Molecular Formula:	$C_{17}H_{17}N_3O_2$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml) or water (up to 20 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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