

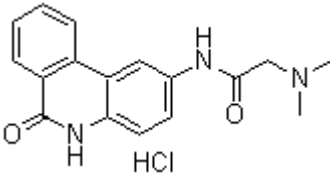


Product Introduction

PJ34 HCl

PJ34 HCl is the hydrochloride salt of PJ34, which is a PARP inhibitor with EC50 of 20 nM and is equally potent to PARP1/2.

Technical Data:

Molecular Weight (MW):	331.8	
Formula:	C17H17N3O2.HCl	
Solubility (25°C) * <1 mg/ml means slightly soluble or insoluble:	DMSO 66 mg/mL	
	Water 66 mg/mL	
	Ethanol <1 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	344458-15-7	

Biological Activity

PJ34 is a potent, phenanthridinone PARP inhibitor, which is approximately 10,000 times more potent than the prototypical PARP inhibitor 3-aminobenzamide. PJ34 inhibited peroxynitrite-induced cell necrosis with EC50 of 20 nM. PJ34 provides cardioprotection by decreasing myocardial infarct size and enhancing postischemic regional and global functional recovery. [1]

PJ34 suppresses the development of clinical signs of EAE in MBP-immunized PLSJL mice. PJ34 exerted

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therapeutic effects at the onset of EAE that are associated with reduced CNS inflammation and the maintenance of neurovascular integrity. PJ34 partially inhibits the expression of TNF- α and ICAM-1 in the Spinal Cord Tissues of MBP-Immunized Mice.[2] PJ34 provides significant, dose-dependent, anti-inflammatory effects in a variety of local inflammation models. PJ34 dose-dependently suppresses neutrophil infiltration and nitric oxide (but not KC and IL-1 β) production in peritonitis. In a model of systemic endotoxemia, PJ34 pretreatment significantly reduces plasma levels of TNF- α , IL-1 β and nitrite/nitrate (breakdown products of nitric oxide) production. PJ34 treatment (oral gavage) induces a significant suppression of the inflammatory response in dextran sulfate colitis, multiple low dose streptozotocin diabetes and cyclophosphamide-accelerated autoimmune diabetes in the non-obese diabetic mice, and reduces the degree of mononuclear cell infiltration into the iris in an endotoxin-induced uveitis model. [3]

Water-soluble PARP1/2 inhibitor with >10,000-fold potency vs. 3-aminobenzamide (prototypical PARP inhibitor). Potential uses in cardiovascular diseases (stroke, cerebral ischemia, & myocardial ischemia).

References

- [1] Garcia Soriano F, et al. Nat Med, 2001, 7(1), 108-113.
- [2] Scott GS, et al. J Pharmacol Exp Ther, 2004, 310(3), 1053-1061.
- [3] Mabley JG, et al. Inflamm Res, 2001, 50(11), 561-569.



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