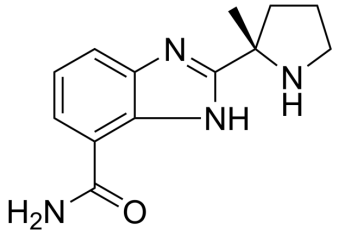
PARP-2/1-IN-2

Cat. No.:	HY-105253
CAS No.:	912444-01-0
Molecular Formula:	$C_{13}H_{16}N_4O$
Molecular Weight:	244.29
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PARP-2/1-IN-2 (Compound 4a), the enantiomer of Veliparib (HY-10129), is a potent PARP inhibitor with K_is of 2 and 5 nM against PARP-2 and PARP-1, respectively. PARP-2/1-IN-2 has an EC_{50} of 3 nM in a cell based assay of PARP activity[1].

IC_{50} & Target	PARP2	PARP1
	2 nM (Ki)	5 nM (Ki)

In Vivo

PARP-2/1-IN-2 (Compound 4a) (25 or 50 mg/kg; i.p.) attenuates pain in Cisplatin (HY-17394) and Oxaliplatin (HY-17371)-induced neuropathy in mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male C57BL6J mice, Cisplatin (HY-17394) and Oxaliplatin (HY-17371)-induced painful neuropathy models[1]
Dosage:	25 mg/kg or 50 mg/kg
Administration:	Intraperitoneal injection, two days prior to treatment with Cisplatin or oxaliplatin, with administration continuing by i.p. injection along with the Cisplatin or oxaliplatin regimen (5 days, followed by 5 days of rest, for two weekly cycles)
Result:	Does not attenuate Cisplatin and Oxaliplatin-induced body weight loss. Does not Affect the decline in exploratory behavior associated with Cisplatin and Oxaliplatin Treatment. Attenuates mechanical allodynia in Cisplatin and Oxaliplatin-induced neuropathy. Attenuates thermal hyperalgesia in Cisplatin-induced neuropathy. Attenuates cold hyperalgesia associated with Oxaliplatin-induced neuropathy.

REFERENCES

[1]. Ta LE, et al. A novel and selective poly (ADP-ribose) polymerase inhibitor ameliorates chemotherapy-induced painful neuropathy. PLoS One. 2013;8(1):e54161.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA