

MPP dihydrochloride reduces the ratio of p-ER α /ER α ^[1].

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

Cell Viability Assay^[1]

Cell Line:	RL95-2 endometrium cancer cells
Concentration:	1, 5, 10, 25, 50 and 100 μ M
Incubation Time:	24 hours
Result:	The treatment with 25 μ M, 50 μ M and 100 μ M for 24 h decreased cell viability significantly. However, cell viability was not significantly changed by MPP dihydrochloride at concentration below 25 μ M.

Cell Proliferation Assay^[1]

Cell Line:	RL95-2 endometrium cancer cells
Concentration:	10, 15, 20 and 25 μ M
Incubation Time:	72 hours
Result:	Showed antiproliferative activity at a concentration of 10 μ M.

Western Blot Analysis^[1]

Cell Line:	RL95-2 endometrium cancer cells
Concentration:	20 μ M
Incubation Time:	24 hours
Result:	Reduced the phosphorylation of ER α , while it did not alter the phosphorylation of Akt. Reduced the ratio of p-ER α /ER α compared to the control group.

In Vivo

MPP (Low dose 20 μ g/kg body weight or high dose 200 μ g/kg body weight) leads to a dose-dependent attenuation of percent prepulse inhibition (PPI)^[2].

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Animal Model:	Male C57BL/6N mice at the age of 9-10 weeks ^[2]
Dosage:	Low dose (20 μ g/kg body weight) or high dose (200 μ g/kg body weight)
Administration:	Administered subcutaneously (s.c.) injected; injection volume of 5 mL/kg; 60 min before PPI testing
Result:	Led to a dose-dependent attenuation of percent PPI. Pretreatment with 200 μ g/kg reduced the mean percent PPI scores by ~30%.

CUSTOMER VALIDATION

- Phytomedicine. 27 February 2022, 154022.
- Ecotoxicol Environ Saf. 2023 May 23;259:115060.

- Mol Nutr Food Res. 2021 Jul 5;e2100070.
- Metab Brain Dis. 2022 Jul 2.
- Eur J Inflamm. October 11, 2021.

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REFERENCES

- [1]. Davis AM, et al. The effects of the selective estrogen receptor modulators, methyl-piperidino-pyrazole (MPP), and raloxifene in normal and cancerous endometrial cell lines and in the murine uterus. Mol Reprod Dev. 2006 Aug;73(8):1034-44.
- [2]. Karabođa Arslan AK, et al. α -Chaconine and α -Solanine Inhibit RL95-2 Endometrium Cancer Cell Proliferation by Reducing Expression of Akt (Ser473) and ER α (Ser167). Nutrients. 2018 May 25;10(6). pii: E672.
- [3]. Labouesse MA, et al. Effects of selective estrogen receptor alpha and beta modulators on prepulse inhibition in male mice. Psychopharmacology (Berl). 2015 Aug;232(16):2981-94.
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