

keyword

cisplatin

drug-induced hearing loss

hearing loss



Official website

Drug-induced hearing loss model

We assess the inhibitory effect of substances on hearing loss with auditory brainstem response (ABR) test using cisplatin-induced hearing loss model.

Test Method

Animals used: CBA/J mice

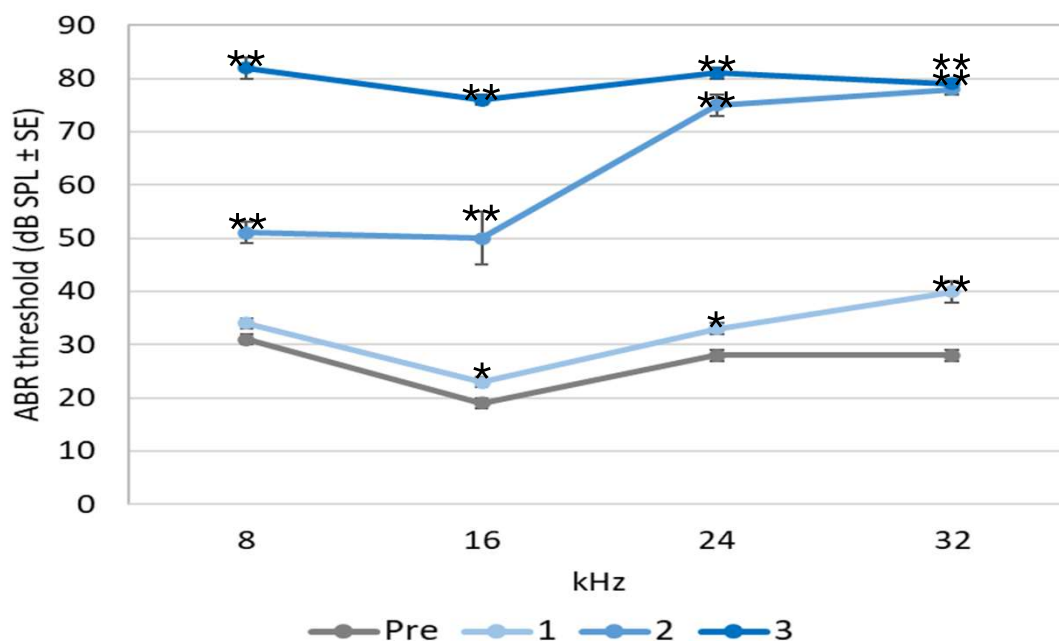
Method of induction: Repeated administration of cisplatin (intraperitoneal administration)

Example schedule: Cisplatin administration for 4 consecutive days followed by 10-day withdrawal period are repeated 3 times (cisplatin dosage is adjustable).

Evaluation and Results

Evaluation method: ABR test (before cisplatin administration and 1st, 2nd, and 3rd withdrawal periods)

[Changes in ABR sound pressure threshold]



Results

Cisplatin administration increased ABR sound pressure threshold.

** : Wilcoxon signed-rank test, vs Pre, $p < 0.01$, $n = 9-12$.

* : $p < 0.05$, $n = 12$.