



Figure S1. Comparative hearing loss progression and sound conduction efficiency of *Dusp1*^{+/+}, *Dusp1*^{-/-} and N-acetylcysteine-treated *Dusp1*^{-/-} mice. (A) Hearing loss progression from 8 to 16 weeks of age shown by auditory brainstem response (ABR) threshold shifts of wild-type (WT), *Dusp1* knock-out (KO) and N-acetylcysteine-treated *Dusp1* KO mice. (B and C) Input-output ABR wave I latency and amplitude plotted against intensity (dB SPL) for 8- and 16-week-old WT, *Dusp1* KO and NAC-treated *Dusp1* KO mice. (D) ABR waves I, II, III, IV and interpeak latencies (I-II, II-IV and I-IV) comparison at fixed click stimulus intensity (70 dB SPL). All data are presented as mean \pm SEM of at least 15 mice per condition. Statistical significance between genotypes was analyzed by one-way ANOVA: * vs KO, # vs WT (*, # p<0.05; **, ## p<0.01; ***, ### p<0.001).