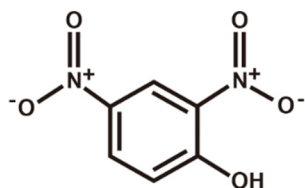
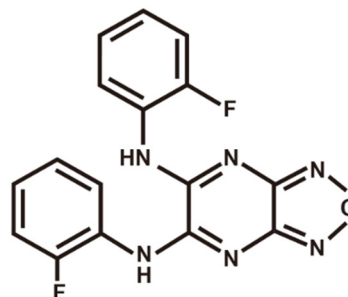


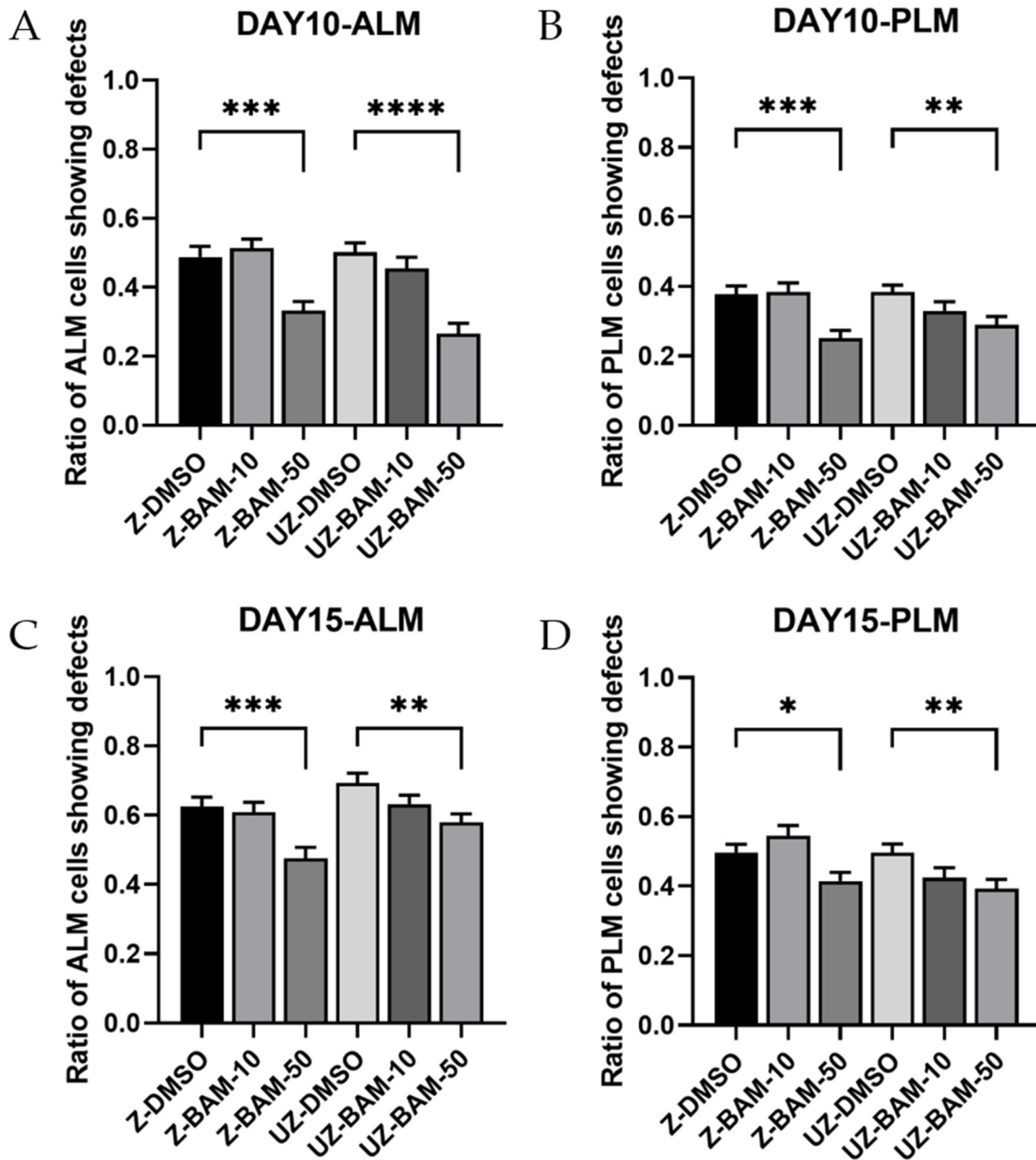
DNP
Pka: 4.09
LogP: 1.67



Bam 15
Pka: 7.56
LogP: 6.52



Supplement Figures 1: Chemical structure and properties of BAM15 as a mitochondrial uncoupler. The acid dissociation constant (pKa) and LogP value are presented. DNP, 2,4-dinitrophenol; BAM15, (2-fluorophenyl){6-[(2-fluorophenyl)amino](1,2,5-oxadiazolo[3,4-e]pyrazine-5-yl)}amine.



Supplement Figures 2. 50 μ M BAM15 reduced more neuronal defects than 10 μ M BAM15. (A–D) ALM and PLM neuronal defects are presented as a ratio of the total ALM- and PLM- scored neurons in animals treated with 10 μ M BAM15 and 50 μ M BAM15 on day-10 (A and B) and 15 (C and D). Z-DMSO, DMSO control in *zdl5*; Z-BAM-10, 10 μ M BAM15 treatment in *zdl5*; Z-BAM-50, 50 μ M BAM15 treatment in *zdl5*; UZ-DMSO, *ucp-4; zdl5* treated with DMSO; UZ-BAM-10, *ucp-4; zdl5* treated with 10 μ M BAM15; UZ-BAM-50, *ucp-4; zdl5* treated with 50 μ M BAM15. Error bars represent the SEM. $n = 80\sim100$ worms per treatment in each experiment. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$. Unpaired Student's *t*-tests were performed to compare DMSO control and treatments.