

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: **Recording of swimming motion of a representative untreated 3 dpf zebrafish larva.** Larvae were placed in a 10-cm Petri dish filled with Danieau's solution. The steady-state swimming behavior was recorded using a SONY ExwaveHAD camera and EthoVision XT 7.0 software was used to analyze the recording and generate the tracking data.

File Name: Supplementary Movie 2

Description: **Recording of swimming motion of a representative 3 dpf zebrafish larva after treatment with compound 15 and light irradiation.** Larvae were placed in a 10-cm Petri dish filled with Danieau's solution. The steady-state swimming behavior was recorded using a SONY ExwaveHAD camera and EthoVision XT 7.0 software was used to analyze the recording and generate the tracking data.

File Name: Supplementary Movie 3

Description: **Heartbeat monitoring of a representative untreated 3 dpf zebrafish larva.** Larvae were anesthetized with MS222 and mounted sideways in 3% methylcellulose for continuous heartbeat recording using a Hamamatsu camera (40 frames per second) and HClmage 4.2.0.33 software.

File Name: Supplementary Movie 4

Description: **Heartbeat monitoring of a representative 3 dpf zebrafish larva after treatment with compound 15 and light irradiation.** Larvae were anesthetized with MS222 and mounted sideways in 3% methylcellulose for continuous heartbeat recording using a Hamamatsu camera (40 frames per second) and HClmage 4.2.0.33 software.