Title: Supplementary Movie 1.

Description: Animation illustrating the block of sodium influx after HwTxIV-Nvoc illumination. The movie is divided in three episodes. The first episode shows the Na⁺ influx in the AIS associated with the generation of an AP using a false color scale and at fast temporal resolution. The second episode shows, at slower temporal resolution, the UV flash uncaging HwTxIV-Nvoc over the soma and the AIS. The third episode shows the absence of Na⁺ influx in the AIS after uncaging HwTxIV-Nvoc even when the somatic membrane potential is depolarized to the same level of the AP peak before uncaging HwTxIV-Nvoc.

Title: Supplementary Movie 2.

Description: Video recorded using Ethovision setup of zebrafish larvae injected with 50 μ M AaHII-R⁶²K-Nvoc prior to illumination.

Title: Supplementary Movie 3.

Description: Video recorded using Ethovision setup of zebrafish larvae injected with 50 μ M AaHII-R⁶²K-Nvoc after 365 nm illumination.

Title: Supplementary Data 1.

Description: Table of ¹H NMR chemical shifts of the non-caged HwTxIV.