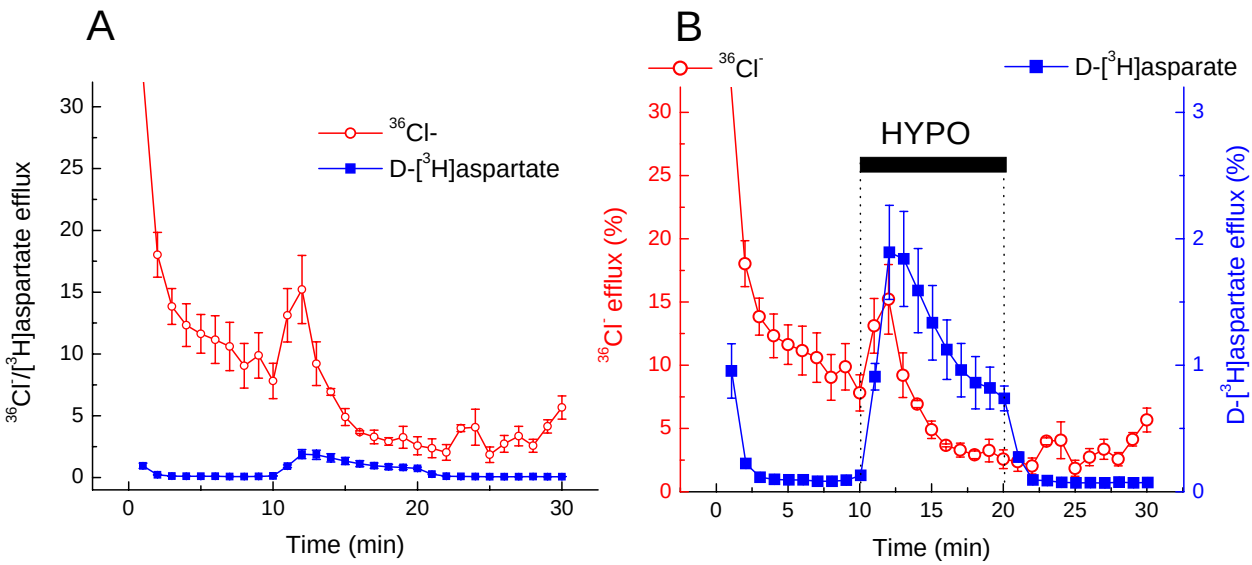

Supplemental Figure 1. Simultaneous measurements of D-[^{3}H]aspartate and ^{36}Cl^{-} release from cultured astrocytes exposed to hypoosmotic medium.

Cells were preloaded overnight with 4 µCi/ml D-[^{3}H]aspartate, washed from extracellular isotope, and then additionally loaded for 2 hrs with 35 µCi/ml ^{36}Cl^{-}. After wash of extracellular ^{36}Cl^{-}, cells were placed in a Lucite perfusion chamber and perfused with isoosmotic and hypoosmotic media, as indicated. D-[^{3}H]aspartate and ^{36}Cl^{-} in collected perfusate fractions were counted separately (0-16 keV window for [^{3}H] and 16-700 keV for ^{36}Cl; these settings allow for negligible [^{36}Cl] contribution to [^{3}H] counts and no [^{3}H] contribution to [^{36}Cl] counts). Because of the high rate of anion exchange in cultured astrocytes, ^{36}Cl^{-} was strongly depleted in the cells by the first 2-3 minutes of hypoosmotic exposure. Therefore the present data should be considered only qualitatively and mindful of the continuously decreasing ^{36}Cl^{-} availability. **A**, D-[^{3}H]aspartate and ^{36}Cl^{-} releases are presented on the same scale. **B**, The same data are presented on different scales for easier comparison of efflux kinetics for both isotopes. Data are means ±SE of 3 experiments.