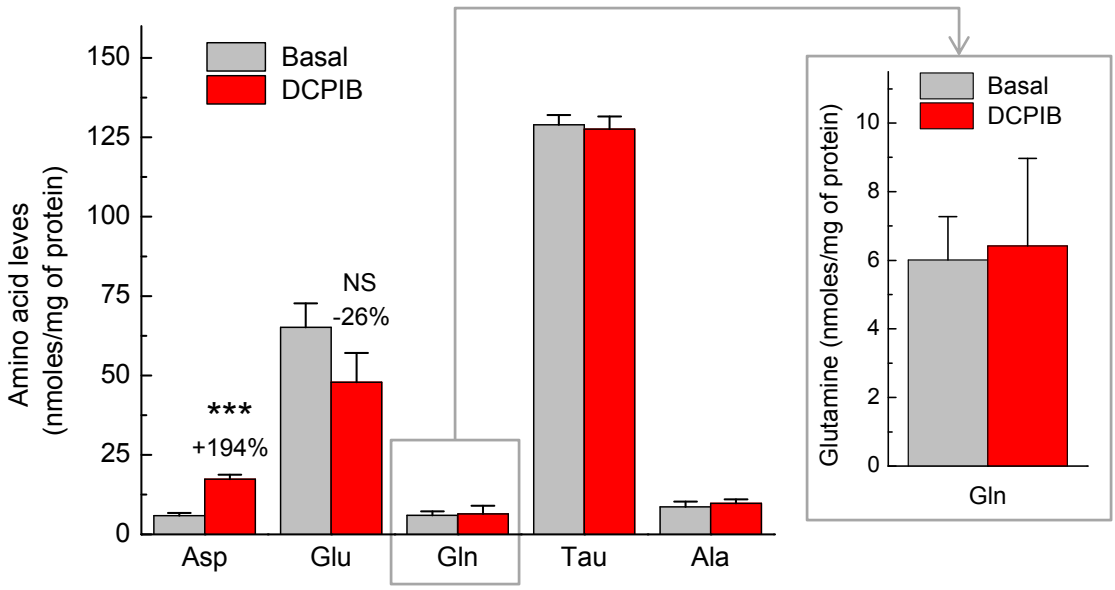
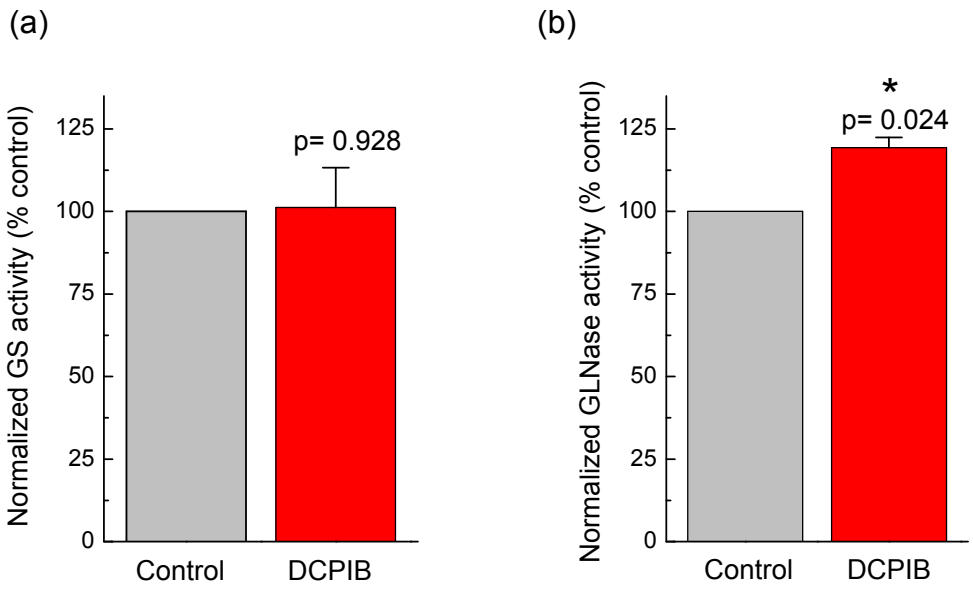


Hyzinski-García *et al.* Supplemental Fig. 1.

Effect of the VRAC blocker DCPIB on intracellular content of L-glutamate, L-glutamine, taurine, and L-alanine.

Primary rat astrocytes were incubated in Basal media for 30 min with or without 20 μM DCPIB. Levels of 5 intracellular amino acids were analyzed in cell lysates using an HPLC assay and normalized to protein content. Data are the mean values ± SE of 6 experiments. ***p<0.001, vs. basal. *Inset* shows no changes in glutamine levels in DCPIB-treated cells on an expanded scale.



Hyzinski-García *et al.* Supplemental Fig. 2.

Effect of the VRAC blocker DCPIB on enzymatic activities of (a) glutamine synthetase and (b) glutaminase.

Primary rat astrocytes were incubated in Basal media with L-[^{3}H]glutamate or L-[^{3}H]glutamine in the presence or absence of 20 μM DCPIB. Enzymatic activities were quantifies by measuring conversion of L-[^{3}H]glutamate to L-[^{3}H]glutamine for glutamine synthetase (GS), or L-[^{3}H]glutamine to L-[^{3}H]glutamate for glutaminase (GLNase) as described in Methods. In each set of experiments enzymatic activities were normalized to controls to account for culture-to-culture variability. Data are the mean values ± SE of 6 experiments for GS (a) and 3 experiments for GLNase (b). *p<0.05 vs. 100%, t-test.