

MOA

 $_{\odot}$ Inhibits carbonic anhydrase in ~renal proximal tubule cells carbonic anhydrase catalyzes formation of $HCO_3{}^-$ and H^+ from H_2O and CO_2

 $_{\rm 0}$ Inhibition of carbonic anhydrase decreases $[{\rm H^+}]$ in tubule lumen and decreases the availability of $~{\rm H^+}$ for for ${\rm Na^+/H^+}$ exchange

 \circ Increases Na⁺ and H₂O retention in lumen. This leads to alkaline urine and an increase in the excretion of bicarbonate, sodium, potassium, and water.



Uses

For adjunctive treatment of: edema due to congestive heart failure; drug-induced edema; chronic simple (open-angle) glaucoma. Methazolamide



MOA: Similar to acetazolamide

Uses: For treatment of chronic open-angle glaucoma and acute angle-closure glaucoma Dichlorphenamide



MOA: Similar to acetazolamide Uses: For adjunctive treatment of chronic simple (open-angle) glaucoma, secondary glaucoma, and preoperatively in acute angle-closure glaucoma where delay of surgery is desired in order to lower intraocular pressure