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Inhibitors, Screening Libraries, Proteins

Na⁺/HCO₃⁻ Cotransporter

Na/HCO₃ cotransporter; NBC

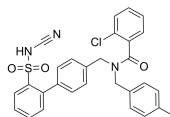
The electrogenic Na/HCO₃ cotransporter (symporter) is the major HCO₃⁻ transporter of the renal proximal tubule (PiT), located at the basolateral membrane (BLM), and also plays a noteworthy role in Na⁺ reabsorption. HCO₃ transporters are important for regulation of intracellular pH (pHi) in most cells and also thereby regulate blood pH. This electrogenic Na/HCO₃ cotransporter is first discovered using perfused *Ambystoma tigrinum* (salamander) renal, proximal tubules. This novel cotransporter mediates the movement of one Na⁺ ion with several HCO₃⁻ ions, making it electrogenic, is blocked by stilbene compounds, but does not depend on intra- or extracellular Cl⁻. This and similar cotransporters have been found in a number of tissues and cell types.

Na⁺/HCO₃⁻ Cotransporter Inhibitor

S0859

Cat. No.: HY-15529

S0859 is a selective, high-affinity generic Na⁺/HCO₃⁻ transporter (NBC) inhibitor. S0859 reversibly inhibits NBC-mediated intracellular pH (pHi) recovery (K_i=1.7 μM, full inhibition at approximately 30 μM).



Purity: 98.59%

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg