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Ligand-Independent Chloride Ion Channel Activation

National Cancer Institute

Source

National Cancer Institute. *Ligand-Independent Chloride Ion Channel Activation*. NCI Thesaurus. Code C88549.

A process that involves the detection of and alteration of either the voltage or pH across a membrane, and results in a chloride channel becoming permeable to Cl^- and related ions, including HCO_3^- , I^- , SCN^- and NO_3^- . This interaction plays a crucial role in setting the potential of the resting membrane, but also functions to regulate pH, the transport of organic solutes and the migration, differentiation and proliferation of cells.