Topical Celecoxib

National Cancer Institute

Source

A topical cream formulation containing celecoxib, a nonsteroidal anti-inflammatory drug (NSAID), with anti-inflammatory and potential keratolytic, chemopreventive and antineoplastic activities. Upon topical application to the affected area, celecoxib selectively binds to and inhibits cyclooxygenase-2 activity (COX-2), which may result in localized keratinocyte apoptosis. The breakdown of keratinocytes prevents their proliferation locally and may reduce tumor cell proliferation.