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(54) Title: ANTI-IRRITANT COMPOSITIONS CONTAINING A CYCLIC 2'-DEOXY-NUCLEOTIDE

(57) Abstract

The present invention relates to cosmetic or pharmaceutical topical compositions containing at least one cyclic nucleotide having its 2' hydroxyl group replaced by a hydrogen atom for inhibiting phosphodiesterase activity. The phosphodiesterase inhibitor is in combination with a magnesium buffer and a cosmetically or pharmaceutically acceptable carrier. The invention also includes methods for treating or preventing inflammation or irritation such as is common in the skin disease, atopic dermatitis, which is known to be related to the uncontrolled activity of phosphodiesterase.