

Cyclic nucleotide phosphodiesterases in health and disease

CRC Press/Taylor & Francis - Cyclic Nucleotide Phosphodiesterase

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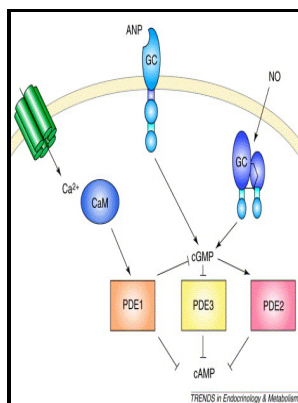
Phosphoric Diester Hydrolases -- physiology.

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-Cyclic nucleotide phosphodiesterases in health and disease

Notes: Includes bibliographical references and index.

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Tags: #Phosphodiesterases #in
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Cyclic nucleotide

Special notoriety was attributed to this PDE family after the development of the potent and selective PDE5 inhibitor sildenafil and its successful use in the treatment of erectile dysfunction —. C, the therapeutic potential of PDE4 inhibitors has long been recognized, especially as anti-inflammatory agents, and recently roflumilast, a selective PDE4 inhibitor, has been approved by the U.

Cyclic Nucleotide Phosphodiesterase

The PDE4 family modulates β 2-adrenergic responses in pulmonary smooth muscle and cardiac tissue, in part, through interactions with β -arrestin. Lugnier Regulation of PDE Expression in Arteries: Role in Controlling Vascular Cyclic Nucleotide Signaling, D.

Cyclic Nucleotide Phosphodiesterases (PDE) and Peptide Motifs

On the other hand, roflumilast, which is a highly selective PDE4 inhibitor that does not discriminate between any of the PDE4 gene variants, has been recently approved for the treatment of COPD in the United States, Europe, and several other countries —. These actions increase the amplitude of intracellular Ca^{2+} transients, which are attenuated in dilated cardiomyopathy Beuckelmann et al.

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In this review, we will focus on the involvement of PDEs in neurodegenerative disorders. Yotiao and KCNQ1 regulate potassium ion current.

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