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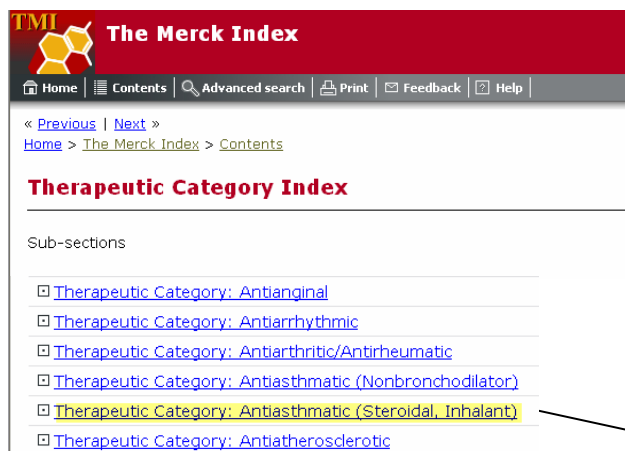
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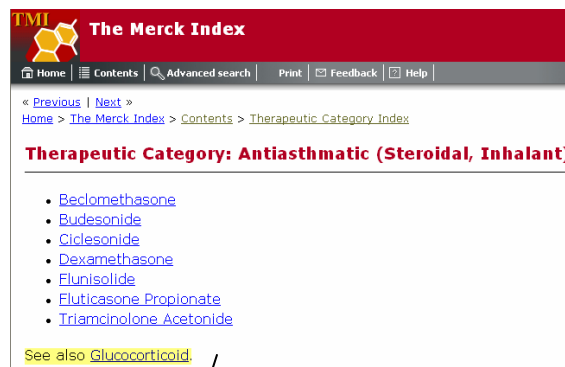
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Therapeutic Category Index

Sub-sections

- Therapeutic Category: Antianginal
- Therapeutic Category: Antiarrhythmic
- Therapeutic Category: Antiarthritic/Antirheumatic
- Therapeutic Category: Antiasthmatic (Nonbronchodilator)
- Therapeutic Category: Antiasthmatic (Steroidal, Inhalant)**
- Therapeutic Category: Antiatherosclerotic

Link to related therapeutic areas to broaden or narrow the retrieval



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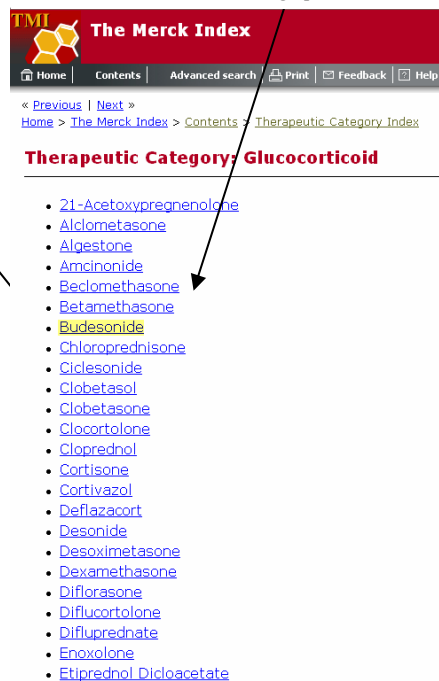
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Therapeutic Category: Antiasthmatic (Steroidal, Inhalant)

- Beclomethasone
- Budesonide
- Ciclesonide
- Dexamethasone
- Flunisolide
- Fluticasone Propionate
- Triamcinolone Acetonide

See also **Glucocorticoid**.

Link to full monographs



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Therapeutic Category: Glucocorticoid

- 21-Acetoxyprogesterone
- Alclometasone
- Algestone
- Amcinonide
- Beclomethasone
- Betamethasone
- Budesonide**
- Chloroprednisone
- Ciclesonide
- Clobetasol
- Clobetasone
- Clocortolone
- Cloprednol
- Cortisone
- Cortivazol
- Deflazacort
- Desonide
- Desoximetasone
- Dexamethasone
- Diflorasone
- Diflucortolone
- Difluprednate
- Enoxolone
- Etiprednol Diclacetate



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01468. Budesonide

Nomenclature

CAS number: 51333-22-3
(11 β ,16 α)-16,17-[Butylidenebis(oxy)]-11,21-dihydroxypregna-1,4-diene-3,20-dione, (R,S)-11 β ,16 α ,17,21-tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with butyraldehyde; S-1320; Bident (IDD); Budeson (AstraZeneca); Cortivent (AstraZeneca); Desonax (Pulitzer); Entocort (AstraZeneca); Miflonil (Novartis); Novopulmon (Viatris); Pulmaxan (AstraZeneca); Preferid (AstraZeneca); Pulmicort (AstraZeneca); Rhinocort (AstraZeneca); Spirocort (AstraZeneca).
C₂₇H₄₀O₆; mol wt 430.53.
C 69.74%, H 7.96%, O 22.30%.

Description and references

Non-halogenated glucocorticoid related to **triamcinolone hexacetonide**, q. v. with a high ratio of topical to systemic activity. Prep: R. L. Brattsand et al., *DE 2323215*; *idem*, *US 3929768* (1973, 1975 both to Bofors). Synthesis and anti-inflammatory properties: A. Thalén, R. L. Brattsand, *Arzneim.-Forsch.* **29**, 1787 (1979). Pharmacokinetic study: A. Ryrfeldt et al., *J. Steroid Biochem.* **10**, 317 (1979). HPLC deternm of epimers, impurities, content: G. Roth et al., *J. Pharm. Sci.* **69**, 766 (1980). Clinical experience in collagenous colitis: S. Miehke et al., *Aliment. Pharmacol. Ther.* **22**, 1115 (2005). Safety profile in asthma patients: A. L. Sheffer et al., *Ann. Allergy Asthma Immunol.* **94**, 48 (2005). Review of physical and pharmacokinetic properties: E. J. O'Connell, *Clin. Ther.* **25**, C42-C60 (2003); of pharmacokinetics and clinical experience in Crohn's disease: S. Edsbäck, T. Andersson, *Clin. Pharmacokinet.* **43**, 803-821 (2004); in allergic rhinitis: B. E. Stenlund, *Clin. Ther.* **26**, 473-492 (2004); in pediatric asthma: W. E. Berger, *Drugs* **65**, 1973-1989 (2005).



Properties

Crystals, mp 221-232° (dec). Mixture of two isomers; the content of the S-isomer in the mixture varies between 40-51%. [α]_D²⁵ +98.9° (c = 0.28 in methylene chloride). Freely sol in chloroform; sparingly sol in ethanol. Practically insol in water, heptane. Partition coefficient (octanol/water): 1.6x10³.

Therapeutic Category

Anti-inflammatory.

Keywords

Antiasthmatic (Steroidal, Inhalant); Glucocorticoid

Therapeutic Category (Veterinary)

Anti-inflammatory in treatment of inflammatory intestinal diseases.

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