Desonide

Item No. 21368

CAS Registry No.: 638-94-8
Formal Name: (11β,16α)-11,21-dihydroxy-16,17-[(1-methylethyldiene)bis(oxy)]-pregna-1,4-diene-3,20-dione
Synonym: Budesonide acetonide
MF: C_{24}H_{32}O_{6}
FW: 416.5
Purity: ≥98%
UV/Vis.: λ_{max}^\text{nm}: 243 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Desonide is supplied as a crystalline solid. A stock solution may be made by dissolving the desonide in the solvent of choice, which should be purged with an inert gas. Desonide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of desonide in these solvents is approximately 10, 25, and 20 mg/ml, respectively.

Desonide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, desonide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Desonide has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Desonide is a synthetic corticosteroid.\textsuperscript{1} It is a nonfluorinated analog of triamcinolone acetonide (Item No. 18026). Formulations containing desonide are used topically to reduce inflammation in conditions that include allergic reactions and psoriasis.\textsuperscript{1,2}

References