PRODUCT INFORMATION

Clobetasol Propionate
Item No. 21251

CAS Registry No.: 25122-46-7
Formal Name: 21-chloro-9-fluoro-11β-hydroxy-16β-methyl-17-(1-oxopropoxy)-pregna-1,4-diene-3,20-dione
Synonyms: CCI-4725, CGP 9555, Clobetasol 17-Propionate
MF: C₂₅H₃₂ClFO₅
FW: 467.0
Purity: ≥98%
UV/Vis.: λmax: 239 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Clobetasol propionate is supplied as a crystalline solid. A stock solution may be made by dissolving the clobetasol propionate in the solvent of choice. Clobetasol propionate is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of clobetasol propionate in ethanol is approximately 1 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Clobetasol propionate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, clobetasol propionate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Clobetasol propionate has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Clobetasol propionate is a corticosteroid that potently activates the glucocorticoid receptor (IC₅₀ = 3 nM).¹ Formulations containing clobetasol propionate are used topically to suppress inflammatory skin conditions.²,³

References