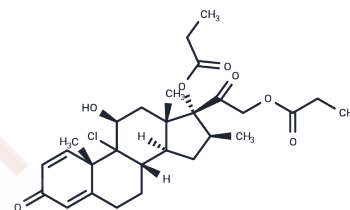


## Beclometasone dipropionate

## Chemical Properties

CAS No. :	5534-09-8
Formula:	C <sub>28</sub> H <sub>37</sub> ClO <sub>7</sub>
Molecular Weight:	521.04
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Beclometasone dipropionate (Vancenase) is the dipropionate ester of a synthetic glucocorticoid with anti-inflammatory and immunomodulating properties. After cell surface receptor attachment and cell entry, beclomethasone enters the nucleus where it binds to and activates specific nuclear receptors, resulting in an altered gene expression and inhibition of proinflammatory cytokine production.
Targets(IC50)	Glucocorticoid Receptor, Reactive Oxygen Species, NO Synthase, ROS
In vitro	Beclomethasone dipropionate (BDP) is an anti-inflammatory corticosteroid available for the treatment of asthma and allergic rhinitis (AR). BDP is previously developed as aqueous nasal formulations for the treatment of AR. BDP is also available in dry nasal aerosol formulations as chlorofluoro carbon (CFC) metered-dose inhaler nasal sprays, but CFC-containing formulations have been withdrawn from the market and currently are not available. BDP hydrofluoroalkane (HFA) inhalation aerosol currently is available for patient use and indicated for the maintenance treatment of asthma as prophylactic therapy in patients 5 years of age and older. BDP HFA nasal aerosol, an intranasal aerosol formulation, has been developed recently for the treatment of AR.

## Solubility Information

Solubility	DMSO: 55 mg/mL (105.56 mM), Sonication is recommended. Ethanol: 18 mg/mL (34.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.84 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9192 mL	9.5962 mL	19.1924 mL
5 mM	0.3838 mL	1.9192 mL	3.8385 mL
10 mM	0.1919 mL	0.9596 mL	1.9192 mL
50 mM	0.0384 mL	0.1919 mL	0.3838 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Ratner PH, et al. Clin Ther, 2012, 34(6), 1422-1431.

Busse WW, et al. J Allergy Clin Immunol, 1999, 104(6), 1215-1222.

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