Data Sheet (Cat.No.T10494)



Beclomethasone 17-propionate

Chemical Propert	ies
CAS No. :	5534-18-9
Formula:	C25H33ClO6
Molecular Weight:	
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	Beclomethasone 17-propionate is an active metabolite of Beclomethasone dipropionate and an agonist of the glucocorticoid receptor (GR). It exhibits greater affinity for GR than Beclomethasone dipropionate. Beclomethasone 17-propionate effectively suppresses cytokine production in COPD lung macrophages.
Targets(IC50)	Others
In vitro	Beclomethasone 17-propionate inhibits LPS-stimulated CXCL8, TNF α , and IL-6. The EC50 values of Beclomethasone 17-propionate for IL-6, TNF α , and CXCL8 were 0.05 nM, 0.01 nM, and 0.1 nM, respectively. Beclomethasone 17-propionate evokes the upregulation of the GR dependent genes FKBP51 and GILZ [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1506 mL	10.7532 mL	21.5063 mL
5 mM	0.4301 mL	2.1506 mL	4.3013 mL
10 mM	0.2151 mL	1.0753 mL	2.1506 mL
50 mM	0.043 mL	0.2151 mL	0.4301 mL

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.

Reference

Würthwein G, et al. Activation of beclomethasone dipropionate by hydrolysis to beclomethasone-17monopropionate. Biopharm Drug Dispos. 1990 Jul;11(5):381-94.

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