

Product datasheet

Prednisolone sodium phosphate, glucocorticoid
ab142456

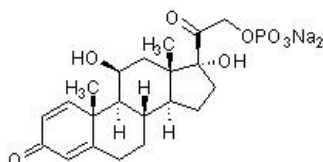
1 Image

Overview

Product name	Prednisolone sodium phosphate, glucocorticoid
Description	Water-soluble glucocorticoid
Biological description	Water-soluble glucocorticoid. Anti-inflammatory agent. Orally active. Active <i>in vitro</i> and <i>in vivo</i> .
Purity	> 98%
General notes	<p>Prednisolone is a derivative of cortisol and a metabolite of prednisone; it exhibits immunosuppressive and anti-inflammatory activities. Prednisolone activates glucocorticoid receptors and is clinically used to treat inflammatory and autoimmune disorders. In mononuclear cells from subjects with multiple sclerosis, prednisolone decreases expression of T-bet, IFNγ, and phosphorylated STAT1, decreasing lymphocyte apoptosis. Additionally, prednisolone delays the progression of Duchenne muscular dystrophy (DMD), altering muscle fiber types <i>in vivo</i>.</p> <p>This product is a white to off white powder.</p>

CAS Number 125-02-0

Chemical structure



Properties

Chemical name	Disodium [2-[(8S,9S,10R,11S,13S,14S,17R)-11,17-dihydroxy-10,13-dimethyl-3-oxo-7,8,9,11,12,14,15,16-octahydro-6H-cyclopenta[a]phenanthren-17-yl]-2-oxoethyl] phosphate
Molecular weight	484.39
Molecular formula	C ₂₁ H ₂₇ Na ₂ O ₈ P
PubChem identifier	441409
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water (250 mg/ mL), methanol (77 mg/mL) and ethanol.
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in

tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

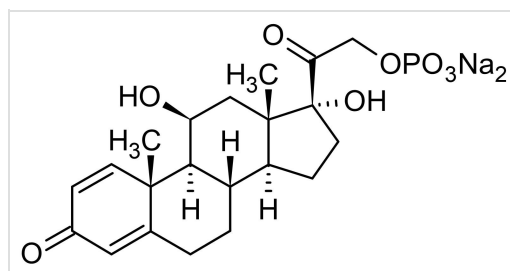
Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

CC12CC(C3C(C1CCC2(C(=O)COP(=O)([O-])[O-])O)CCC4=CC(=O)C=CC34C)O.[Na+].[Na+]

Source

Synthetic

Images

Chemical Structure - Prednisolone sodium phosphate, glucocorticoid (ab142456)

2D chemical structure image of ab142456, Prednisolone sodium phosphate, glucocorticoid

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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