

Prednisolone (disodium phosphate)

Catalog No: tcsc2878



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

125-02-0

Formula:

$C_{21}H_{27}Na_2O_8P$

Pathway:

GPCR/G Protein

Target:

Glucocorticoid Receptor

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 320 mg/mL (660.62 mM)

Alternative Names:

Prednisolone 21-phosphate disodium

Observed Molecular Weight:

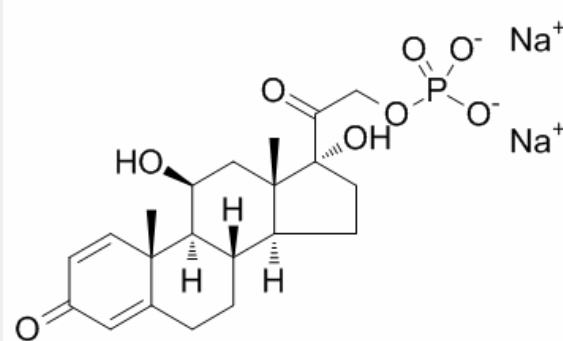
484.39

Product Description

Prednisolone disodium phosphate is a synthetic glucocorticoid with anti-inflammatory and immunomodulating properties.

Target: Glucocorticoid Receptor

Prednisolone irreversibly binds with glucocorticoid receptors (GR) alpha and beta for which they have a high affinity. Prednisolone can activate and influence biochemical behaviour of most cells. The steroid/receptor complexes dimerise and interact with cellular DNA in the nucleus, binding to steroid-response elements and modifying gene transcription. They induce synthesis of some proteins, and inhibit synthesis of others. Prednisolone exerted a delayed biphasic effect on the resistant CCRF-CEM leukemic cell line, necrotic at low doses and apoptotic at higher doses. At low doses, prednisolone exerted a pre-dominant mitogenic effect despite its induction on total cell death, while at higher doses, prednisolone's mitogenic and cell death effects were counterbalanced [1, 2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!