Dexamethasone

Glucocorticoid receptor ligand

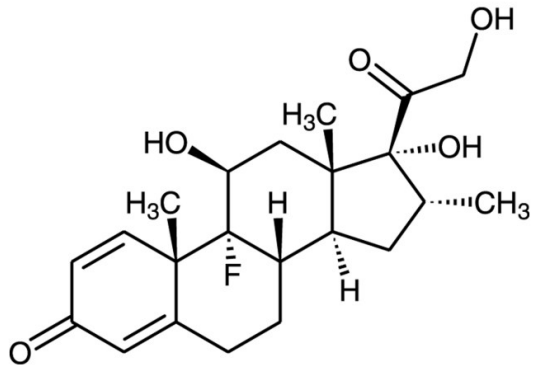
Anti-inflammatory glucocorticoid with anti-inflammatory activity. Induces the production of phospholipase A2 inhibitory protein (lipocortin). Inhibits induction of nitric oxide synthase (NOS) (IC50=5nM). Induces apoptosis in eosinophils, but inhibits it in neutrophils. Both effects are blocked by RU-486. Modulates osteogenesis of mesenchymal stem cells. Inhibits constitutive OPG mRNA steady-state levels in a dose- and time-dependent fashion, promoting osteoclast formation. Oral dexamethasone administration induces an increase in insulin resistance in humans. Furthermore, it inhibits differentiation of immature to mature dendritic cells.

Citations: 36 View Online »

Ordering Information Order Online »

BML-EI126-0001	1g
BML-EI126-0005	5g

Manuals, SDS & CofA View Online »


OH
O
H3C
HO
OH
H3C
H
CH3
F
H
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for up to 5 years after receipt when stored at +20°C. Stock solutions are stable for up to 3 months at -20°C.
Handling	Protect from light.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	9α-Fluoro-16α-methylprednisolone
Appearance	White to off-white solid.
CAS	50-02-2
Couple Target	Glucocorticoid receptor, IDO
Couple Type	Activator, Ligand
Formula	$C_{22}H_{29}FO_5$
MI	**14:** 2943
MW	392.5
Purity	≥98% (HPLC)
RTECS	TU3980000
Solubility	Soluble in DMSO (25mg/ml), 100% ethanol (25mg/1.6ml) or methanol; insoluble in water.

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