

Catalog	Unit
TBI1134 – 1G	1 g
TBI1134 - 5G	5 g

Product Details

Formal Name: (11 β ,16 α)-9-Fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione.

Molecular Formula: C₂₂H₂₉FO₅.

Formula Weight: 392.46.

CAS Number: 50-02-2

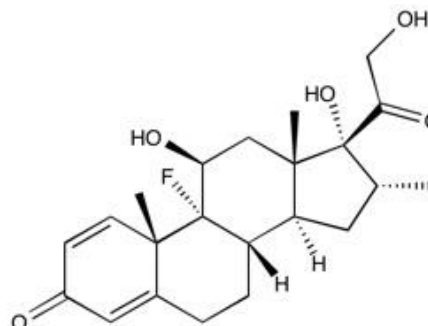
Purity: \geq 90%

Formulation: Powder.

Solubility: Soluble in DMSO (up to 40 mg/ml).

Storage: Room Temperature.

Stability: \geq 2 years, protect from light.



Applications

- Apoptosis inducing glucocorticoid.

Functions

Dexamethasone is a synthetic glucocorticoid used clinically in the treatment of a variety of inflammatory and autoimmune conditions as an anti-inflammatory glucocorticoid. Inhibits the expression of the inducible but not the constitutive nitric oxide synthase in vascular endothelial cells (IC₅₀=5 nM). Enhances active cation transport in aortic smooth muscle cells by stimulating the Na⁺-K⁺ pump. Has anti-inflammatory and anti-rheumatic properties. Induces apoptosis in human thymocytes. In general, 500-1000 nM of dexamethasone is sufficient to induce apoptosis following a 6-hour incubation at 37°C.

Application Procedures

Dexamethasone can be first dissolved in DMSO (up to 40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI1092	AICAR, AMPK activator
TBI1029	Dorsomorphine, AMPK inhibitor
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2430	Amphotericin B, antifungal agent
TBI2393	Trolox, antioxidant
TBI1319	BML-288, PDE2 Inhibitor
TBI2584	Cilostamide, PDE3 Inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor

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