Dexamethasone

Dexamethasone, a synthetic glucocorticoid with a higher affinity than a natural ligand, cortisol, has a range of effects on cell survival, cell signaling and gene expression. It is known to affect inflammatory responses, cellular proliferation, and differentiation in target tissues. Dexamethasone has been shown to inhibit differentiation of cord blood stem cell derived dendritic cells (DC) precursors into immature DCs.

TECHNICAL INFORMATION

Other Names: 9-fluoro-11β,17α,21-trihydroxy-16β-methyl-pregna-1,2-diene-3,20-dione

Chemical Formula: C₂₂H₂₉FO₅

CAS Number: 50-02-2

PubChem Substance ID: 24893906

Molecular Weight: 392.50

Purity: >99%

Appearance: White Solid

Solubility: DMSO

IC₅₀: 5nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in ≥79mg/mL of DMSO.

REFERENCES

