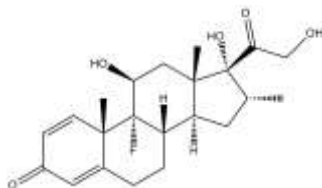


Dexamethasone

CATALOG #: 1042-1
AMOUNT: 1 ml (10 mM in DMSO)
LOT #: _____

STRUCTURE:



STORAGE CONDITIONS: Store at -20°C.
SHELF LIFE: 3 months at -20°C
MOLECULAR WEIGHT: 392.5
MOLECULAR FORMULA: C₂₂H₂₉FO₅
PURITY: ≥99% by TLC

DESCRIPTION:

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 (1, 2).

RECOMMENDED USAGE:

We recommend using 1000X dilutions for inducing apoptosis in Jurkat cells. However, the optimal doses may vary for different cells and culture conditions.

REFERENCES:

1. Martin, S.J., *et al.* (1995) *J. Exp. Med.* **182**:1545-1556.
2. Fearnhead, H.O., *et al.* (1994) *Biochem. Pharmacol.* **48**:1073-1079.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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