

Dexamethasone

CATALOG #:	1042-1G, -10G
AMOUNT:	1 g, 10 g
LOT #:	_____
CAS NUMBER:	50-02-2
MOLECULAR WEIGHT:	392.5
MOLECULAR FORMULA:	C ₂₂ H ₂₉ FO ₅
PURITY:	≥99% by TLC
SOLUBILITY:	Soluble in ethanol (25 mg/ml)
STORAGE CONDITIONS:	Store powder at -20 °C for up to 1 year. Store solutions at -20°C for up to 3 months.

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).

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:

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

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

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
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- Bioluminescence Cytotoxicity Assay Kit
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- DNA Damage Quantification Kit
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- PLTP Activity Assay & Drug Discovery Kits
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