

PRODUCT: Dexamethasone

CATALOG #:	1042-1G
AMOUNT:	1 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 room temperature 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.

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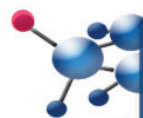
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UK & Rest of World

184 Milton Park, Abingdon
OX14 4SE, Oxon, UK
Tel: +44 (0) 1235 828 200
Fax: +44 (0) 1235 820 482

Switzerland

Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
Tel: +41 (0) 91 604 55 22
Fax: +41 (0) 91 605 17 85

Deutschland

Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
Tel: +49 (0) 69 779099
Fax: +49 (0) 69 13376880

North America

23591 El Toro Rd, Suite #167
Lake Forest, CA 92630
Tel: + 1 800 987 0985
Fax: + 1 949 265 7703