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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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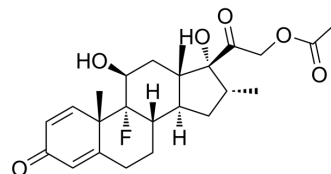
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Dexamethasone acetate (Standard)

Cat. No.:	HY-14648AR
CAS No.:	1177-87-3
Molecular Formula:	C ₂₄ H ₃₁ FO ₆
Molecular Weight:	434.5
Target:	Glucocorticoid Receptor; Autophagy; Mitophagy; Bacterial; SARS-CoV; Antibiotic; Complement System; ADC Cytotoxin
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Autophagy; Anti-infection; Antibody-drug Conjugate/ADC Related
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (115.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.3015 mL	11.5075 mL	23.0150 mL
	5 mM		0.4603 mL	2.3015 mL	4.6030 mL
	10 mM		0.2301 mL	1.1507 mL	2.3015 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dexamethasone acetate (Standard) is the analytical standard of Dexamethasone acetate. This product is intended for research and analytical applications. Dexamethasone acetate (Dexamethasone 21-acetate) is a glucocorticoid receptor agonist. Dexamethasone also significantly decreases CD11b, CD18, and CD62L expression on neutrophils, and CD11b and CD18 expression on monocytes. Dexamethasone is highly effective in the control of COVID-19 infection. Dexamethasone inhibits production of exosomes containing inflammatory microRNA-155 in lipopolysaccharide-induced macrophage inflammatory responses.

IC₅₀ & Target

Glucocorticoid receptor^[1]

REFERENCES

[1]. LaLone CA, et al. Effects of a glucocorticoid receptor agonist, Dexamethasone, on fathead minnow reproduction, growth, and development. Environ Toxicol Chem. 2012 Mar;31(3):611-22.

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- [2]. Adcock IM, et al. Ligand-induced differentiation of glucocorticoid receptor (GR) trans-repression and transactivation: preferential targetting of NF-kappaB and lack of I-kappaB involvement. *Br J Pharmacol.* 1999 Jun;127(4):1003-11
- [3]. Rocksén D, et al. Differential anti-inflammatory and anti-oxidative effects of Dexamethasone and N-acetylcysteine in endotoxin-induced lung inflammation. *Clin Exp Immunol.* 2000 Nov;122(2):249-56
- [4]. Roussel D, et al. Dexamethasone treatment specifically increases the basal proton conductance of rat liver mitochondria. *FEBS Lett.* 2003 Apr 24;541(1-3):75-9.
- [5]. Ballabh P, et al. Neutrophil and monocyte adhesion molecules in bronchopulmonary dysplasia, and effects of corticosteroids. *Arch Dis Child Fetal Neonatal Ed.* 2004 Jan;89(1):F76-83.
- [6]. Heidi Ledford. et al. Coronavirus Breakthrough: Dexamethasone Is First Drug Shown to Save Lives. *Nature.* 2020 Jun 16.
- [7]. Yun Chen, et al. Glucocorticoids inhibit production of exosomes containing inflammatory microRNA-155 in lipopolysaccharide-induced macrophage inflammatory responses. *Int J Clin Exp Pathol* 2018;11(7):3391-3397.
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Caution: Product has not been fully validated for medical applications. For research use only.

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