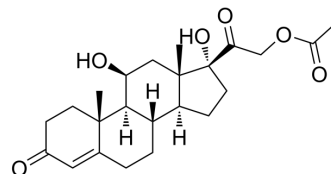


Hydrocortisone acetate

Cat. No.:	HY-B1183
CAS No.:	50-03-3
Molecular Formula:	C ₂₃ H ₃₂ O ₆
Molecular Weight:	404.5
Target:	Glucocorticoid Receptor; Endogenous Metabolite
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 38 mg/mL (93.94 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.4722 mL	12.3609 mL	24.7219 mL
	5 mM		0.4944 mL	2.4722 mL	4.9444 mL
	10 mM		0.2472 mL	1.2361 mL	2.4722 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Hydrocortisone acetate (Hydrocortisone 21-acetate) is a corticosteroid used to reduce swelling, itching and pain caused by minor skin irritations or hemorrhoids^[1].

IC₅₀ & Target

Human Endogenous Metabolite

In Vivo

Hydrocortisone acetate (25 mg/kg, s.c., on the 10th, 11th and 12th days of pregnancy) causes the limb buds of 14-day-old embryos dilatation of the venous marginal sinuses (14.4%), extensive distal mesoblast necrosis (7.9%), distal haemorrhages (10.7%), and frequent necrotic centres in the limb skeleton blastemas^[1].

Hydrocortisone acetate (0.25-5 mg in 0.1 mL, s.c.) reduces concentration of all subclasses of IgG, IgA, and IgM in mice^[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jurand A. The effect of hydrocortisone acetate on the development of mouse embryos. J Embryol Exp Morphol. 1968 Nov;20(3):355-66.

[2]. Levy AL, Waldmann TA. The effect of hydrocortisone on immunoglobulin metabolism. J Clin Invest. 1970 Sep;49(9):1679-84.

Caution: Product has not been fully validated for medical applications. For research use only.

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