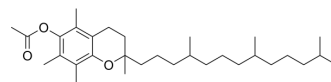


(±)-α-Tocopherol acetate

Cat. No.:	HY-B1278B		
CAS No.:	7695-91-2		
Molecular Formula:	C ₃₁ H ₅₂ O ₃		
Molecular Weight:	472.74		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (211.53 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.1153 mL	10.5766 mL	21.1533 mL
	5 mM	0.4231 mL	2.1153 mL	4.2307 mL
	10 mM	0.2115 mL	1.0577 mL	2.1153 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.29 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.29 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.29 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	(±)-α-Tocopherol acetate ((±)-Vitamin E acetate), is a orally active synthetic form of vitamin E. (±)-α-Tocopherol acetate is the ester of acetic acid and α-tocopherol. (±)-α-Tocopherol acetate can be used for the research of the susceptibility of farmed fish to infectious diseases ^[1] .
In Vivo	(±)-α-Tocopherol acetate ((±)-Vitamin E acetate) (oral; 600 mg/kg, 1200 mg/kg, 1800 mg/kg; 15 d, 30 d and 45 d) exhibits significantly high complement activity ^[1] . (±)-α-Tocopherol acetate (oral; 600 mg/kg, 1200 mg/kg, 1800 mg/kg; 15 d, 30 d and 45 d) stimulates the seabream's non-

specific immune system after 30 days of administration in the diet (1200 mg/kg)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Gilthead seabream (<i>Sparus aurata</i> L.) ^[1]
Dosage:	600 mg/kg, 1200 mg/kg, 1800 mg/kg
Administration:	oral; 600 mg/kg, 1200 mg/kg, 1800 mg/kg; 15 d, 30 d and 45 d
Result:	<p>Had a positive correlation with serum α-tocopherol levels and the increase being linked to both the dosage and length of use.</p> <p>Showed no enhancement in any of their immune parameters, while those fed the diet supplemented with 1200 mg/kg presented a slightly higher (but not statistically significant) specific growth rate than fish fed the other diets.</p> <p>Enhanced the serum haemolytic activity and the phagocytosis of head-kidney leucocytes by the dietary intake of 1200 mg/kg after 30 and 45 days, although leucocyte migration and respiratory burst activity remained unaffected.</p> <p>Provoked no immunostimulation in 1800 mg/kg.</p>

REFERENCES

[1]. J Ortuño, et al. High dietary intake of alpha-tocopherol acetate enhances the non-specific immune response of gilthead seabream (*Sparus aurata* L.). *Fish Shellfish Immunol.* 2000 May;10(4):293-307

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

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