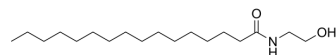


Palmitoylethanolamide

Cat. No.:	HY-20685	
CAS No.:	544-31-0	
Molecular Formula:	C ₁₈ H ₃₇ NO ₂	
Molecular Weight:	299.49	
Target:	Endogenous Metabolite; Influenza Virus	
Pathway:	Metabolic Enzyme/Protease; Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2.6 mg/mL (8.68 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3390 mL	16.6950 mL	33.3901 mL
	5 mM	0.6678 mL	3.3390 mL	6.6780 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Palmitoylethanolamide (Palmidrol) is an active endogenous compound which can be used for preventing virus infection of the respiratory tract.

IC₅₀ & Target

Human Endogenous Metabolite	Human Endogenous Metabolite
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In Vitro

Palmitoylethanolamide (Palmidrol) itself does not stimulate interferon production in mice treated per os or intravenously. But repeated application of this drug per os induces a macrophage activation, reflected by enhanced interferon production in vitro. When the interferon stimulation is delayed until 4 to 10 days after the first dose of Palmitoylethanolamide, interferon response to ds-RNA is slightly increased. After this phase of enhanced activity a decreased production of interferon is observed. Palmitoylethanolamide is not significantly effective in protecting mice from lethal dose of EMC virus. Application of this drug has an inhibitory effect on the toxicity of ds-RNA. A possible explanation of the mechanism by which Palmitoylethanolamide decreased the toxicity of virus in the organism is discussed^[1].

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

REFERENCES

[1]. Lackovic V, et al. Effect of impulsin treatment of interferon production and antiviral resistance of mice. Arch Immunol Ther Exp (Warsz). 1977;25(5):655-61.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA