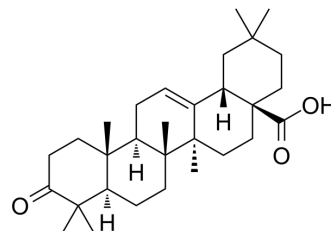


## Oleanonic acid

<b>Cat. No.:</b>	HY-N1487		
<b>CAS No.:</b>	17990-42-0		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>46</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	454.68		
<b>Target:</b>	HIV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (109.97 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1993 mL	10.9967 mL	21.9935 mL
5 mM	0.4399 mL	2.1993 mL	4.3987 mL
10 mM	0.2199 mL	1.0997 mL	2.1993 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (5.50 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (5.50 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (5.50 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Oleanonic acid (3-Oxooleanolic acid) is a triterpenoid, inhibits infection by HIV.

#### IC<sub>50</sub> & Target

HIV-1

### CUSTOMER VALIDATION

- 
- Pharmacol Res. 2024 May 9;204:107208.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Giner-Larza EM et al. Oleanolic acid, a 3-oxotriterpene from Pistacia, inhibits leukotriene synthesis and has anti-inflammatory activity. Eur J Pharmacol. Sep 28;428(1):137-43. doi:10.1016/S0014-2999(01)01290-0(2001)

[2]. Fabio Mengoni. Anti-HIV Activity of Oleanolic Acid on Infected Human Mononuclear Cells. Planta Med 68(2): 111-114. DOI: 10.1055/s-2002-20256(2002)

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

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