## (Rac)-Idroxioleic acid

MedChemExpress

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Cat. No.:	HY-129467
CAS No.:	56472-29-8
Molecular Formula:	$C_{18}H_{34}O_{3}$
Molecular Weight:	298.46
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	<b>4°C, protect from light</b> * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solu	1 mM	3.3505 mL	16.7527 mL	33.5053 mL
	5 mM	0.6701 mL	3.3505 mL	6.7011 mL
	10 mM	0.3351 mL	1.6753 mL	3.3505 mL

<b>BIOLOGICAL ACTIV</b>	ТТҮ	
Description		ydroxyoleic acid) is a synthetic oleic acid (OA) derivative that binds to the plasma membrane and Rac)-Idroxioleic acid has anti-tumor effect <sup>[1]</sup> .
In Vitro	an IC <sub>50</sub> of ~40 μM <sup>[1]</sup> . (Rac)-Idroxioleic acid (25-5 cleavage of PARP, a molect	75 μM; 72 hours) impairs Jurkat cell growth in a time- and concentration-dependent manner, with 50 μM; 72 hours) also induces a marked and concentration-dependent increase in the proteolytic ular marker of apoptosis <sup>[1]</sup> . y confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	Jurkat cells
	Concentration:	25 μΜ, 50 μΜ, 75 μΜ
	Incubation Time:	24 hours, 48 hours, 72 hours
	Result:	Impaired Jurkat cell growth in a time- and concentration-dependent manner.

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	Western Blot Analysis <sup>[1]</sup>				
	Cell Line:	Jurkat cells			
	Concentration:	25 μΜ, 50 μΜ			
	Incubation Time:	72 hours			
	Result:	Induced a marked and concentration-dependent increase in the proteolytic cleavage of PARP.			
Vivo		(Rac)-Idroxioleic acid markedly and significantly inhibits tumour growth in nude mice infected with Jurkat cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	MCE has not independe	nuy commed the accuracy of these methods. They are for reference only.			
	MCE has not independer	6-week-old nude male mice (Jurkat cells xenograft model) <sup>[1]</sup>			
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	Animal Model:	6-week-old nude male mice (Jurkat cells xenograft model) <sup>[1]</sup>			

## REFERENCES

[1]. Llado V, et al. Minerval induces apoptosis in Jurkat and other cancer cells. J Cell Mol Med. 2010 Mar;14(3):659-70.

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