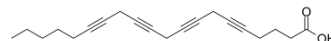


## Eicosatetraynoic acid

<b>Cat. No.:</b>	HY-124108
<b>CAS No.:</b>	1191-85-1
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>24</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	296.4
<b>Target:</b>	COX; PPAR
<b>Pathway:</b>	Immunology/Inflammation; Cell Cycle/DNA Damage
<b>Storage:</b>	Powder -20°C 3 years

\* The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 2 mg/mL (6.75 mM; Need ultrasonic)  
Ethanol : < 1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		3.3738 mL	16.8691 mL	33.7382 mL
	5 mM		0.6748 mL	3.3738 mL	6.7476 mL
	10 mM		---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

Eicosatetraynoic acid (ETYA) is a nonspecific inhibitor of cyclooxygenase and lipoxygenase (ID<sub>50</sub>=8 μM and 4 μM, respectively)<sup>[1]</sup>. Eicosatetraynoic acid (ETYA) activates PPARα and PPARγ chimeras at 10 μM<sup>[2]</sup>.

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

COX  
8 μM (ID50)

### REFERENCES

[1]. Hammarström S, et al. Selective inhibition of platelet n-8 lipoxygenase by 5,8,11-eicosatriynoic acid. *Biochim Biophys Acta*. 1977 Jun 22;487(3):517-9.

[2]. Kliewer SA, et al. A prostaglandin J2 metabolite binds peroxisome proliferator-activated receptor gamma and promotes adipocyte differentiation. *Cell*. 1995 Dec 1;83(5):813-9.

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

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