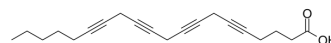


Eicosatetraynoic acid

Cat. No.:	HY-124108
CAS No.:	1191-85-1
Molecular Formula:	C ₂₀ H ₂₄ O ₂
Molecular Weight:	296.4
Target:	COX; PPAR; Orthopoxvirus
Pathway:	Immunology/Inflammation; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Anti-infection
Storage:	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 (3.37 mM; Need ultrasonic and warming)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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 (ID₅₀=8 μM and 4 μM, respectively)^[1]. Eicosatetraynoic acid (ETYA) activates PPARα and PPARγ chimeras at 10 μM^[2]. Eicosatetraynoic acid specifically interferes with the replication of the cowpox virus both in vivo and in vitro^[3].

IC₅₀ & Target

COX
8 μM (ID50)

REFERENCES

- [1]. Palumbo GJ, et al. Inhibitors of the lipoxygenase pathway specifically block orthopoxvirus replication. *Virology*. 1991 Jan;180(1):457-63.
- [2]. 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.
- [3]. Kliewer SA, et al. A prostaglandin J2 metabolite binds peroxisome proliferator-activated receptor gamma and promotes adipocyte differentiation. *Cell*. 1995 Dec

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

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