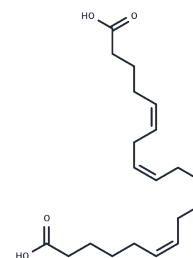


20-carboxy Arachidonic Acid

Chemical Properties

CAS No. :	79551-84-1
Formula:	C ₂₀ H ₃₀ O ₄
Molecular Weight:	334.456
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	20-carboxy Arachidonic acid (20-COOH-AA) is the major metabolite of 20-HETE that is produced in renal tubular epithelial, endothelial, and microvascular smooth muscle cell cultures. This ω -oxidation conversion can take place using purified alcohol dehydrogenases three and four or by microsomes containing recombinant human CYP4F3B. Like 20-HETE, 20-COOH-AA inhibits ion transport in the kidneys. It also produces vasorelaxation of porcine coronary microvessels constricted with endothelin. 20-COOH-AA binds to isolated ligand binding domains of peroxisome proliferator-activated receptor α (PPAR α) ($K_d = 0.87 \pm 0.12 \mu\text{M}$) and PPAR γ ($K_d = 1.7 \pm 0.5 \mu\text{M}$), and is a dual activator of PPAR α and PPAR γ in a transiently transfected COS-7 cell reporter system.
Targets(IC50)	Others,PPAR

Solubility Information

Solubility	0.1 M Na ₂ CO ₃ : 1.5 mg/mL (4.48 mM),Sonication is recommended. DMF: 100 mg/mL (298.99 mM),Sonication is recommended. Ethanol: 100 mg/mL (298.99 mM),Sonication is recommended. DMSO: 100 mg/mL (298.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9899 mL	14.9495 mL	29.8989 mL
5 mM	0.598 mL	2.9899 mL	5.9798 mL
10 mM	0.299 mL	1.4949 mL	2.9899 mL
50 mM	0.0598 mL	0.299 mL	0.598 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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