# Arachidonic acid (20:4, n-6)

## Eicosanoid precursor and second messenger

Arachidonic acid is an essential fatty acid and a precursor to a large family of eicosanoids. Arachidonic acid acts as a second messenger independent of metabolism and a retrograde messenger in long-term potentiation in the nervous system. Arachidonic acid activates several protein kinase C (PKC) isotypes and inhibits ras-GAP.

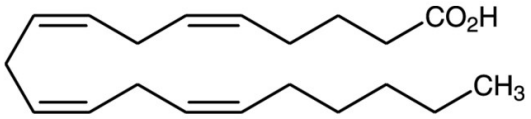
**Citations:** 23 View Online »

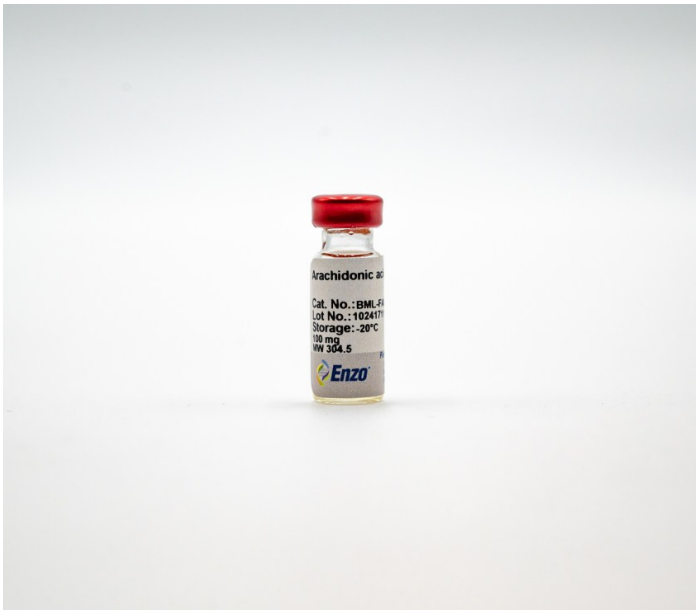
## Ordering Information Order Online »

| | |
|---|---|
| **BML-FA003-0100** | 100mg |
| **BML-FA003-1000** | 1g |

## Manuals, SDS & CofA View Online »

- Essential precursor for leukotrienes, prostaglandins, and thromboxanes
- Used in cancer, cardiovascular, cell signaling, immunology, and metabolism studies amongst others


$CO_2H$
$CH_3$


Arachidonic ac
Cat. No.:BML-F
Lot No.:102417
Storage:-20°C
100 mg
MW 304.5
Enzo

## Handling & Storage

| | |
|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Stable for 12 months after receipt when stored at -20°C. Keep aqueous solutions on ice and use within 12 hours. |
| **Handling** | Protect from light and oxygen. |
| **Long Term Storage** | -20°C |
| **Shipping** | Ambient Temperature |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | 5Z,8Z,11Z,14Z-Eicosatetraenoic acid |
| **Appearance** | Colorless oil. |
| **CAS** | 506-32-1 |
| **Couple Target** | PKC, Ras-GAP |
| **Couple Type** | Activator, Inhibitor |
| **Formula** | $C_{20}H_{32}O_2$ |
| **MI** | **14:** 765 |
| **MW** | 304.5 |
| **Purity** | ≥99% (GLC, TLC) |
| **RTECS** | CE6675000 |
| **Solubility** | Soluble in DMF (100mg/ml), DMSO (100mg/ml), or 100% ethanol (50mg/ml). Sparingly soluble in basic aqueous buffers (1.7mg/ml). To prevent oxidation, the solvent should be purged with an inert gas. |

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