



OXFORD BIOMEDICAL RESEARCH

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Product specifications

AACOCF3

Arachidonyltrifluoromethyl ketone

Product # FA 30

Typical Lot

Cas No:	149301-79-1
Physical Appearance:	Yellow Oil
Molecular Formula:	$C_{21}H_{31}F_3O$
Molecular Weight:	356.5
Analysis:	98% (TLC: 30% Et ₂ O/Hexane; R _f = 0.50 streak)
Solubility:	Soluble in DMSO and ethanol (25 mg/mL each)
Storage:	Store, as supplied, at -20°C for up to one year. Store solutions under nitrogen or argon gas in a tightly sealed container at -20°C for up to one month.
Safety:	The pharmacological and toxicological properties of this product have not been fully

investigated. Exercise caution in use and handling. This product must not be used in humans.

Application Notes:

Subject to oxidation. Protect from air. Selective inhibitor of human cytosolic PLA₂¹ and Ca²⁺-independent PLA₂ (iPLA₂, IC₅₀=15 μM).² It is active in intact platelets³ and U937 cells (IC₅₀=8 μM).⁴ It also inhibits anandamide amidase (100% at 7.5 μM).⁵ This product is not sterile.

References:

1. Street, I.P., et al., *Biochemistry*, **32** : 5935 (1993)
2. Ackerman, E.J., et al., *J. Biol. Chem.*, **270** : 445 (1995)
3. Bartoli, F., et al., *J. Biol. Chem.*, **269** : 15625 (1994)
4. Riendeau, D., et al., *J. Biol. Chem.*, **269** : 15619 (1994)
5. Koutek, B., et al., *J. Biol. Chem.*, **269** : 22937 (1994)