

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Data Sheet (Cat.No.T4129)

TargetM**Ò**I

Arachidonic acid

Chemical Propert	ies	
CAS No. :	506-32-1	CH ₃
Formula:	C20H32O2	Í.
Molecular Weight:	304.47	
Appearance:	no data available	
Storage:	keep away from direct sunlight,store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year	Contraction of the second seco

Biological Description		
Description	rachidonic acid (Immunocytophyte) is an unsaturated, essential fatty acid. It is found in nimal and human fat as well as in the liver, brain, and glandular organs, and is a postituent of animal phosphatides. It is formed by the synthesis from dietary linoleic cid and is a precursor in the biosynthesis of prostaglandins, thromboxanes, and pukotrienes.	
Targets(IC50)	Others,Endogenous Metabolite	
In vitro	 METHODS: RAW264.7 and PBMC-derived macrophages were treated with Arachidonic acid (40-80 μM) for 12-24 h and cell viability was determined by CCK8 assay. RESULTS: Arachidonic acid significantly inhibited macrophage viability in a dose-dependent manner within 12 h, and more inhibition was observed between 12 h and 24 h. Arachidonic acid was also shown to inhibit macrophage viability in a dose-dependent manner. [1] METHODS: Human breast cancer cells, MDA-MB-231, were treated with Arachidonic acid (8 μM) for 48 h. Caspase activity was measured using a spectrofluorophotometer. RESULTS: MDA-MB-231 cells stimulated with Arachidonic acid for 48 h showed a significant increase in caspase-3 activity, and Arachidonic acid also induced significant activation of caspase-8 and caspase-9. [2] 	
In vivo	 METHODS: To test the effect on the inflammatory response, Arachidonic acid (150 mg/kg in 1% CMC Na) was administered orally to C57BL/6 mice with high-fat diet (HFD)-induced cardiac injury every two days for eight weeks. RESULTS: Arachidonic acid treatment prevented MD2/TLR4 dimerization, induction of inflammatory factors, and tissue damage through TLR4-mediated inflammatory responses in a high-fat diet obese mouse model. [3] 	

Solubility Information	
Solubility	DMSO: 100 mg/mL (328.4 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2844 mL	16.422 mL	32.844 mL
5 mM	0.6569 mL	3.2844 mL	6.5688 mL
10 mM	0.3284 mL	1.6422 mL	3.2844 mL
50 mM	0.0657 mL	0.3284 mL	0.6569 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.

Reference

Fang X X, Wei P, Zhao K, et al.Fatty acid-binding proteins 3, 7, and 8 bind cholesterol and facilitate its egress from lysosomes.Journal of Cell Biology.2024, 223(4).

Inhibitor • Natural Compounds • Compound Libraries • Recombinant Proteins This product is for Research Use Only• Not for Human or Veterinary or Therapeutic Use Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481