



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Product Information



## Arachidonic Acid sulfonate (sodium salt)

Item No. 9001886

**Formal Name:** nonadeca-4Z,7Z,10Z,13Z-tetraene-1-sulfonate, monosodium salt

**Synonym:** AA sulfonate

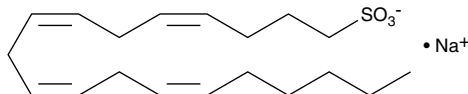
**MF:** C<sub>19</sub>H<sub>31</sub>O<sub>3</sub>S • Na

**FW:** 362.5

**Purity:** ≥95%

**Stability:** ≥1 year at -20°C

**Supplied as:** A solution in methanol



### Laboratory Procedures

For long term storage, we suggest that arachidonic acid sulfonate (sodium salt) be stored as supplied at -20°C. It should be stable for at least one year.

Arachidonic acid (Item No. 90010) is an essential fatty acid and a precursor for all prostaglandins, thromboxanes, and leukotrienes. Virtually all cellular arachidonic acid is esterified in membrane phospholipids where its presence is tightly regulated through multiple interconnected pathways.<sup>1</sup> Free arachidonic acid is a transient, critical substrate for the biosynthesis of eicosanoid second messengers. Receptor-stimulated release, metabolism, and re-uptake of free arachidonate are all important aspects of cell signaling and inflammation.<sup>2</sup> Arachidonic acid sulfonate has a sulfonate group linked to the α-carbon of arachidonic acid, which creates a dissymmetric molecule with potentially improved lipophilicity.

### References

1. Nixon, A.B., Greene, D.G., and Wykle, R.L. Comparison of acceptor and donor substrates in the CoA-independent transacylase reaction in human neutrophils. *Biochim. Biophys. Acta* **1300**, 187-196 (1996).
2. Burgoyne, R.D. and Morgan, A. The control of free arachidonic acid levels. *Trends Biochem. Sci.* **15**, 365-366 (1990).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/9001886](http://www.caymanchem.com/catalog/9001886)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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