PRODUCT INFORMATION



• Na+

Arachidonic Acid sulfonate (sodium salt)

Item No. 9001886

Formal Name: nonadeca-4Z,7Z,10Z,13Z-tetraene-1-

sulfonate, monosodium salt

Synonym: AA sulfonate MF: C₁₉H₃₁O₃S • Na

FW: 362.5 **Purity:** ≥95%

Supplied as: A solution in methanol

Storage: -20°C Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



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. 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. 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 CoAindependent 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).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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