



# SZABO SCANDIC

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## Produktinformation



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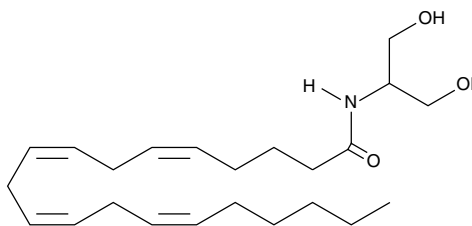
# Product Information



## Arachidonoyl Serinol

Item No. 62170

**CAS Registry No.:** 183718-70-9  
**Formal Name:** N-[(2-hydroxy-1-hydroxymethyl)ethyl]-5Z,8Z,11Z,14Z-eicosatetraenamide  
**MF:** C<sub>23</sub>H<sub>39</sub>NO<sub>3</sub>  
**FW:** 377.6  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that arachidonoyl serinol be stored as supplied at -20°C. It will be stable for at least one year.

Arachidonoyl serinol is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of arachidonoyl serinol in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. For maximum solubility in aqueous buffers, the ethanolic solution of arachidonoyl serinol should be diluted with the aqueous buffer of choice. Arachidonoyl serinol has a solubility of approximately 1 mg/ml in a 2:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

2-Arachidonoyl glycerol (2-AG) has been isolated from porcine brain, and has been characterized as the natural endocannabinoid ligand for the CB<sub>1</sub> receptor.<sup>1,2</sup> Replacement of the *sn*-2 oxygen in the glycerol moiety of 2-AG with a nitrogen atom gives arachidonoyl serinol.<sup>3</sup> Arachidonoyl serinol is much more stable than 2-AG. However, it is at least a log less potent as a CB<sub>1</sub> receptor agonist than 2-AG.<sup>2</sup>

### References

1. Sugiura, T., Kodaka, T., Kondo, S., *et al.* 2-Arachidonoylglycerol, a putative endogenous cannabinoid receptor ligand, induces rapid, transient elevation of intracellular free Ca<sup>2+</sup> in neuroblastoma X glioma hybrid NG108-15 cells. *Biochem. Biophys. Res. Commun.* **229**, 58-64 (1996).
2. Sugiura, T., Kodaka, T., Kondo, S., *et al.* Is the cannabinoid CB<sub>1</sub> receptor a 2-arachidonoylglycerol receptor? Structural requirements for triggering a Ca<sup>2+</sup> transient in NG108-15 cells. *J. Biochem.* **122**, 890-895 (1997).
3. Khanolkar, A.D., Abadji, V., Lin, S., *et al.* Head group analogs of arachidonylethanolamide, the endogenous cannabinoid ligand. *J. Med. Chem.* **39**, 4515-4519 (1996).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/62170](http://www.caymanchem.com/catalog/62170)

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

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