**5(Z),8(Z),11(Z)-Eicosatrienoic Acid Ethanolamide**

**Item No. 90195**

CAS Registry No.: 169232-04-6  
Formal Name: N-(2-hydroxyethyl)-5Z,8Z,11Z-eicosatrienamide  
Synonym: Mead Acid Ethanolamide  
MF: C_{22}H_{39}NO_{2}  
FW: 349.6  
Purity: ≥98%  
Stability: ≥1 year at -20°C  
Supplied as: A solution in ethanol  
Misc.: Oxygen and light sensitive

**Laboratory Procedures**

For long term storage, we suggest that mead acid ethanolamide be stored as supplied at -20°C. It should be stable for at least one year.

Mead acid ethanolamide 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 DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of mead acid ethanolamide in these solvents is approximately 10 and 30 mg/ml, respectively.

Mead acid ethanolamide is a lipid soluble compound, and therefore is not directly soluble in aqueous solutions. 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.

Mead acid ethanolamide is essentially identical to AEA in its agonist binding to CB1 and CB2 receptors. In L cells expressing the human CB1 receptor, the Ki value for mead acid ethanolamide and AEA binding is 753 nM. In ArT-20 cells expressing the human CB2 receptor, mead acid ethanolamide and AEA bind with a Ki value of 1,810 nM.¹

**Reference**


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