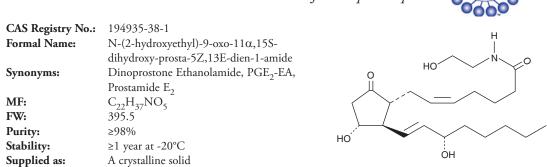
Product Information



Prostaglandin E2 Ethanolamide Lipid Maps MS Standard

Catalog No. 10007212

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Laboratory Procedures

For long term storage, we suggest that prostaglandin E2 ethanolamide (PGE2-EA) be stored as supplied at -20°C. It should be stable for at least one year.

PGE2-EA is supplied as a crystalline solid. A stock solution may be made by dissolving the PGE2-EA in an organic solvent purged with an inert gas. PGE₂-EA is soluble in organic solvents such as ethanol, DMSO, or dimethyl formamide. The solubility of PGE₂ ethanolamide in these solvents is approximately 100 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. Organic solvent-free aqueous solutions of PGE₂-EA can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of PGE₂-EA in PBS (pH 7.2) is approximately 12 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGE2-EA is an analog of PGE2 with improved water solubility and stability. PGE2-EA acts as an agonist with all four known EP receptor subtypes, but with an affinity that is significantly reduced compare to PGE₂.¹ PGE₂-EA is produced by HCA-7 cells treated with arachidonoyl ethanolamide (AEA).² The physiologic relevance of PGE₂-EA is not yet established.

References

- 1. Ross, R.A., Craib, S.J., Stevenson, L.A., et al. Pharmacological characterization of the anandamide cyclooxygenase metabolite: prostaglandin E2 ethanolamide. J. Phar. Exp. Ther. 301(3), 900-907 (2002).
- 2. Kozak, K.R., Crews, B.C., Morrow, J.D., et al. Metabolism of the endocannabinoids, 2-arachidonylgycerol and anandamide, into prostaglandin, thromboxane, and prostacyclin glycerol esters and ethanolamides. J. Biol. Chem. 277(47), 44877-44885 (2002).

Related Products

Prostaglandin E2 serinol amide - Cat. No. 10193 • Prostaglandin D2 Ethanolamide - Cat. No. 12012 • Prostaglandin E1 Ethanolamide - Cat. No. 13012 • Prostaglandin E2 - Cat. No. 14010 • Prostaglandin E2 Ethanolamide - Cat. No. 14012 • 13,14-dihydro-15-keto Prostaglandin E2 Ethanolamide - Cat. No. 14652 • Prostaglandin F202 Ethanolamide - Cat. No. 16013 • Leukotriene B4 Ethanolamide - Cat. No. 20112 • Arachidonic Acid - Cat. No. 90010 • Arachidonovl Ethanolamide - Cat. No. 90050

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

MATERIAL 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, <u>but not all</u>, of the information required for the safe and proper use of this material. Before use, the user <u>must</u> review the <u>complete</u> Material Safety Data
Sheet, which has been sent under separate cover to the MSDS supervisor at your institution.

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