Laboratory Procedures

For long term storage, we suggest that CAY10631 be stored as supplied at -20°C. It should be stable for at least one year. CAY10631 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 CAY10631 in these solvents is approximately 10 mg/ml.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Very long chain fatty acids derived from docosahexaenoic acid by the action of fatty acid elongases are important in retinal development and macular diseases.1-3 These fatty acids are commonly incorporated into the sn-1 position of membrane phospholipids, predominantly phosphatidylcholine, and are involved in binding the photoreceptor rhodopsin.4 CAY10631 is an alcohol related to a C32:6 very long chain fatty acid found in the retina. Its biological actions are unknown.

References