PRODUCT INFORMATION

CAY10632
Item No. 10497

CAS Registry No.: 105517-82-6
Formal Name: 14Z,17Z,20Z,23Z,26Z,29Z-dotriacontahexaenoic acid
MF: C_{32}H_{52}O_2
FW: 468.8
Purity: ≥98%

Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year

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

Laboratory Procedures

CAY10632 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 CAY10632 in these solvents is approximately 50 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. If an organic solvent-free solution of CAY10632 is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of CAY10632 in 0.15 M Tris-HCl (pH 8.5) is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Very long chain polyunsaturated fatty acids (VLCPUFA) are present in retina, sperm, and brain.1-3 Though little is known of their biosynthesis or functional roles in these tissues, recent studies using the elongation of very-long-chain FA-4 protein suggest a unique role for VLPefa in retinal development and macular degeneration.4,5 CAY10632 is a C_{32}:6 VLPefa whose specific biological actions are largely unknown, but are thought to involve normal photoreceptor cell function in the retina.4,6

References