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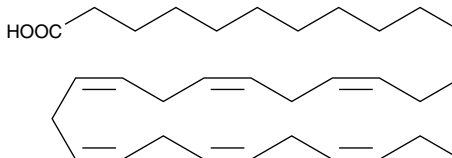
Product Information



CAY10632

Item No. 10497

CAS Registry No.: 105517-82-6
Formal Name: 14Z,17Z,20Z,23Z,26Z,29Z-dotriacontahexaenoic acid
MF: C₃₂H₅₂O₂
FW: 468.8
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that CAY10632 be stored as supplied at -20°C. It should be stable for at least one year.

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. For greater aqueous solubility, CAY10632 can be directly dissolved in 0.5 M Tris-HCl, pH 8.5, and then diluted with PBS to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

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 (ELOVL4) suggest a unique role for VLCPUFA in retinal development and macular degeneration.^{4,5} CAY10632 is a C₃₂:6 VLCPUFA whose specific biological actions are largely unknown, but are thought to involve normal photoreceptor cell function in the retina.^{4,6}

References

1. Aveldaño, M.I. Phospholipid species containing long and very long polyenoic fatty acids remain with rhodopsin after hexane extraction of photoreceptor membranes. *Biochemistry* **27**, 1229-1239 (1988).
2. Robinson, B.S., Johnson, D.W., and Poulos, A. Novel molecular species of spingomyelin containing 2-hydroxylated polyenoic very-long-chain fatty acids in mammalian testes and spermatozoa. *J. Biol. Chem.* **267**, 1746-1751 (1992).
3. Robinson, B.S., Johnson, D.W., and Poulos, A. Unique molecular species of phosphatidylcholine containing very-long-chain (C₂₄-C₃₈) polyenoic fatty acids in rat brain. *Biochem. J.* **265**, 763-7 (1990).
4. McMahon, A., Jackson, S.N., Woods, A.S., *et al.* A Stargardt disease-3 mutation in the mouse Elov4 gene causes retinal deficiency of C₃₂-C₃₆ acyl phosphatidylcholines. *FEBS Lett.* **581**, 5459-5463 (2007).
5. Agbada, M.-P., Mandal, M.N.A., and Anderson, R.E. Retinal very long-chain PUFAs: New insights from studies on ELOVL4 protein. *J. Lipid Res.* **51**, 1624-1642 (2010).
6. Agbada, M.-P., Brush, R.S., Mandal, N.A., *et al.* Role of Stargardt-3 macular dystrophy protein (ELOVL4) in the biosynthesis of very long chain fatty acids. *Proc. Natl. Acad. Sci. USA* **105**(35), 12843-8 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10497

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

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, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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