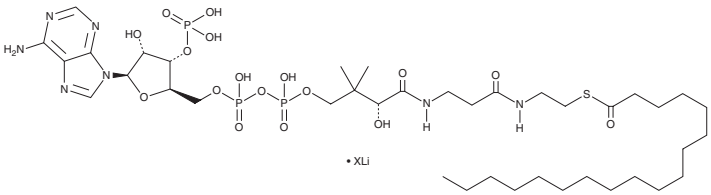
PRODUCT INFORMATION

Stearoyl-Coenzyme A (lithium salt)

Item No. 44594

CAS Registry No.: 193402-48-1
Formal Name: S-octadecanoate coenzyme A, lithium salt
Synonyms: C18-CoA, Octadecanoyl-CoA, Octadecanoyl-Coenzyme A, Stearoyl-CoA
MF: $C_{39}H_{70}N_7O_{17}P_3S \bullet XLi$
FW: 1,034.0
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Special Conditions: Protect from light and weigh under nitrogen



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

Laboratory Procedures

Stearoyl-coenzyme A (stearoyl-CoA) (lithium salt) is supplied as a solid. A stock solution may be made by dissolving the stearoyl-CoA (lithium salt) in the solvent of choice, which should be purged with an inert gas. Stearoyl-CoA (lithium salt) is sparingly soluble (1-10 mg/ml) in a 1:1 solution of acetonitrile:water.

Description

Stearoyl-CoA is a fatty acid metabolite, substrate for stearoyl-CoA desaturase 1 (SCD1), SCD2, and SCD4, and precursor to monounsaturated fatty acids (MUFAs).[1,2]

References

1. Čivić, J., Tuñón, I., and Harvey, J.N. Understanding substrate binding and reactivity of stearoyl-CoA desaturase (SCD1) through classical and multiscale molecular dynamics simulations. *ACS Catal.* **15(3),** 1684–1692 (2025).
2. Miyazaki, M., Bruggink, S.M., and Ntambi, J.M. Identification of mouse palmitoyl-coenzyme A Δ9-desaturase. *J. Lipid Res.* **47(4),** 700-704 (2006).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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