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- Trockeneiszuschlag
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- Expressversand

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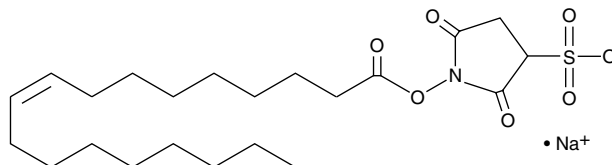
Product Information



Sulfosuccinimidyl Oleate (sodium salt)

Item No. 11211

Formal Name: 1-(oleoyloxy)-2,5-dioxopyrrolidine-3-sulfonic acid, monosodium salt
Synonym: SSO
MF: C₂₂H₃₆NO₇S • Na
FW: 482.6
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that sulfosuccinimidyl oleate (SSO) (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

SSO (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the SSO (sodium salt) in the solvent of choice. SSO (sodium salt) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of SSO (sodium salt) in these solvents is approximately 25 mg/ml.

SSO (sodium salt) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure 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.

SSO is an irreversible inhibitor of the fatty acid translocase CD36, blocking uptake of oleate, linoleate, or stearate by about 65% when added at 200 μM to adipocytes.¹⁻² It reduces the uptake of palmitate by mouse insulinoma MIN6 cells, preventing palmitate-induced changes in insulin secretion.³ SSO impairs saturated fatty acid-induced lipid accumulation and inflammation in RAW 264.7 macrophages.⁴

References

1. Harmon, C.M., Luce, P., Beth, A.H., *et al.* Labeling of adipocyte membranes by sulfo-N-succinimidyl derivatives of long-chain fatty acids: Inhibition of fatty acid transport. *J. Membrane Biol.* **121**, 261-268 (1991).
2. Abumrad, N.A., el-Maghrabi, M.R., Amri, E.Z., *et al.* Cloning of a rat adipocyte membrane protein implicated in binding or transport of long-chain fatty acids that is induced during preadipocyte differentiation. Homology with human CD36. *J. Biol. Chem.* **268**(24), 17665-17668 (1993).
3. Noshmehr, H., D'Amico, E., Farilla, L., *et al.* Fatty acid translocase (FAT/CD36) is localized on insulin-containing granules in human pancreatic β-cells and mediates fatty acid effects on insulin secretion. *Diabetes* **54**(2), 472-481 (2005).
4. Nicholls, H.T., Kowalski, G., Kennedy, D.J., *et al.* Hematopoietic cell-restricted deletion of CD36 reduces high-fat diet-induced macrophage infiltration and improves insulin signaling in adipose tissue. *Diabetes* **60**(4), 1100-1110 (2011).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11211

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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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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