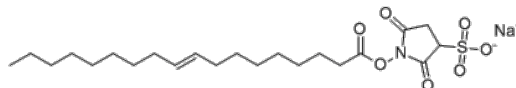


Product Name	: Sulfosuccinimidyl oleate sodium
Cat. No.	: PC-20384
CAS No.	: 1212012-37-7
Molecular Formula	: C ₂₂ H ₃₆ NNaO ₇ S
Molecular Weight	: 481.58
Target	: Other Targets
Solubility	: 10 mM in DMSO



Biological Activity

Sulfosuccinimidyl oleate sodium (SSO) is an irreversible inhibitor of the fatty acid translocase **CD36**, inhibits fatty acid transport (FAT) into cells.

SSO reduced the concentration of IL-6 and TNF- α secreted into the culture media in LPS + IFN γ -stimulated BV2 cells.

SSO reduced the LPS + IFN-induced pro-inflammatory mediators IL-6 and NOS2 while increasing Nrf2, the main regulator of the antioxidant response.

SSO has no inhibitory effect on glucose and octanoate uptake into giant membrane vesicles derived from heart and skeletal muscle, indicating that its action is specific for LCFA uptake.

SSO specifically binds to the 88 kDa plasmalemmal fatty acid transporter FAT, a rat homologue of human CD36.

SSO impairs saturated fatty acid-induced lipid accumulation and inflammation in RAW 264.7 macrophages.

References

Dhungana H, et al. *J Neuroinflammation*. 2017 Dec 4;14(1):237.

Coort SL, et al. *Mol Cell Biochem*. 2002 Oct;239(1-2):213-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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