Product Data Sheet

Product Name: Sulfosuccinimidyl oleate
Cat. No.: GC31964

Chemical Properties

Cas. No.	135661-44-8		
SMILES	O=S(C(C1)C(N(OC(CCCCCCC/C=C\CCCCCCCC)=O)C1=O)=O)(O)=O		
Formula	$C_{22}H_{37}NO_7S$	M.Wt	459.6
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Sulfosuccinimidyl oleate		

Background

Sulfosuccinimidyl oleate (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 ?M 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]

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 transportJ. Membr. Biol.121(3)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 CD36J. Biol. Chem.268(24)17665-17668(1993) 3.Noushmehr, 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 secretionDiabetes54(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

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macrophage infiltration and improves insulin signaling in adipose tissueDiabetes60(4)1100-1110(2011)

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