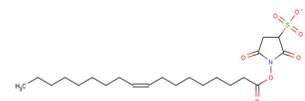


Sulfosuccinimidyl oleate sodium

Chemical Properties

CAS No.:	T13036L
Formula:	C ₂₂ H ₃₆ NNaO ₇ S
Molecular Weight:	481.58
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Sulfosuccinimidyl oleate sodium is a long-chain fatty acid and can inhibit fatty acid transport into cells. Anti-inflammatory effect.
Targets(IC ₅₀)	Others: None
In vitro	Sulfosuccinimidyl oleate (50 μM, 24 hours) co-treatment significantly reduces the LPS+IFNγ-induced expression of NOS2 and COX-2 in BV2 cells. Western blot analysis reveals a significant LPS/IFNγ-induced upregulation in the phosphorylated form of the p38, which is prevented by co-treatment with Sulfosuccinimidyl oleate (50 μM, 24 hours)[1].
In vivo	In male BALB/cABom mice with pMCAo model, Sulfosuccinimidyl oleate (50 mg/kg; administered once by single oral gavage) significantly reduces the cortical ischemic infarct size compared to vehicle-treated controls. In addition, Sulfosuccinimidyl oleate(50 mg/kg) is suitable to see a beneficial effect after stroke[1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (129.78 mM) H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.076 mL	10.382 mL	20.765 mL
5 mM	0.415 mL	2.076 mL	4.153 mL
10 mM	0.208 mL	1.038 mL	2.076 mL
50 mM	0.042 mL	0.208 mL	0.415 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Dhungana H, et al. Sulfosuccinimidyl oleate sodium is neuroprotective and alleviates stroke-induced neuroinflammation. *J Neuroinflammation*. 2017 Dec 4;14(1):237.
2. Drahota Z, et al. Succinimidyl oleate, established inhibitor of CD36/FAT translocase inhibits complex III of mitochondrial respiratory chain. *Biochem Biophys Res Commun*. 2010 Jan 15;391(3):1348-51.

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