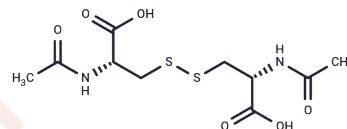


N,N'-Diacetyl-L-cystine

Chemical Properties

CAS No. :	5545-17-5
Formula:	C ₁₀ H ₁₆ N ₂ O ₆ S ₂
Molecular Weight:	324.37
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	N,N'-Diacetyl-L-cystine (DiNAC) is the disulphide dimer of N-acetylcysteine with immunomodulating properties. N,N'-diacetyl-L-cystine also has antiatherosclerotic effects in Watanabe-heritable hyperlipidemic rabbit (WHHL) rabbits. N,N'-diacetyl-L-cystine is also an effective and orally active modulator of contact sensitivity/delayed-type hypersensitivity reactions in rodents.
Targets(IC50)	Others
In vivo	N,N'-Diacetyl-L-cystine (DiNAC; 0-973.11 µg/kg; p.o.; daily; for 12 weeks; WHHL rabbits) treatment reduces thoracic aorta atherosclerosis by 50%, without affecting plasma lipid levels[1].

Solubility Information

Solubility	DMSO: 15 mg/mL (46.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0829 mL	15.4145 mL	30.829 mL
5 mM	0.6166 mL	3.0829 mL	6.1658 mL
10 mM	0.3083 mL	1.5414 mL	3.0829 mL
50 mM	0.0617 mL	0.3083 mL	0.6166 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wågberg M, et al. N,N'-diacetyl-L-cystine (DiNAC), the disulphide dimer of N-acetylcysteine, inhibits atherosclerosis in WHHL rabbits: evidence for immunomodulatory agents as a new approach to prevent atherosclerosis. J Pharmacol Exp Ther. 2001 Oct;299(1):76-82.

Särnstrand B, et al. N,N'-Diacetyl-L-cystine-the disulfide dimer of N-acetylcysteine-is a potent modulator of contact sensitivity/delayed type hypersensitivity reactions in rodents. J Pharmacol Exp Ther. 1999 Mar;288(3):1174-84.

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