



LKT Laboratories, Inc.

Nitroso(acetoxymethyl)methylamine

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Product Information

Product ID N3276

CAS No. 56856-83-8

Chemical Name Acetoxymethyl methylnitrosamine

Synonym Methyl(acetoxymethyl)nitrosamine, α -Acetoxy dimethylnitrosamine

Formula $C_4H_8N_2O_3$

Formula Wt. 132.12

Melting Point

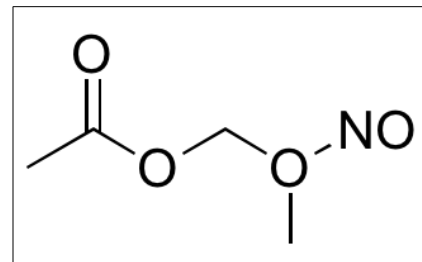
Purity $\geq 97\%$

Solubility Soluble in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description This compound is a precursor of NNK found in tobacco smoke; it exhibits immunosuppressive, mutagenic, and carcinogenic activities. In alveolar and bronchial epithelial cells, this compound inhibits production of IL-8 and MCP-1. This compound also induces the formation of tumors in vivo.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N3276	10 mg	\$194.70
N3276	50 mg	\$519.10
N3276	100 mg	\$843.70

References Proulx LI, Gaudreault M, Turmel V, et al. 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone, a component of tobacco smoke, modulates mediator release from human bronchial and alveolar epithelial cells. Clin Exp Immunol. 2005 Apr;140(1):46-53. PMID: 15762874.

Cloutier JF, Drouin R, Castonguay A. Treatment of human cells with N-Nitroso(acetoxymethyl)methylamine: distribution patterns of piperidine-sensitive DNA damage at the nucleotide level of resolution are related to the sequence context. Chem Res Toxicol. 1999 Sep;12(9):840-9. PMID: 10490506.

Klein RG, Schmezer P, Komitowski D. Carcinogenicity of small doses of inhaled N-nitrosoacetoxymethyl-N-methylamine in Syrian golden hamsters. J Cancer Res Clin Oncol. 1986;111(2):108-9. PMID: 3700456.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.