



LKT Laboratories, Inc.

(+)-S-Methyl-L-cysteine-S-oxide

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Product Information

Product ID M1566

CAS No. 6853-87-8

Chemical Name

Synonym S-Methylcysteine sulfoxide, Methyiin, pyrolyzate

Formula C₄H₉NO₃S

Formula Wt. 151.19

Melting Point 168° C

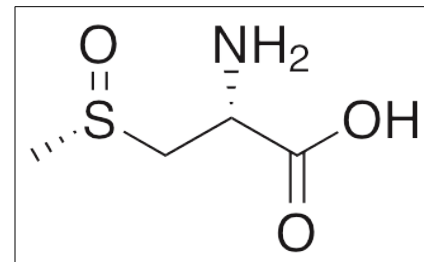
Purity ≥98%

Solubility

Store Temp 4° C

Ship Temp Ambient

Description S-methyl-L-cysteine-S-oxide (Methyiin) is an analog of alliin that can be found in vegetables of the *Brassicaceae* family, such as garlic, onions, and kale. Methyiin exhibits anti-diabetic, anti-hyperlipidemic, and antioxidative activity in vitro and in vivo. This compound decreases plasma glucose and body weight in animal models of diabetes and decreases endogenous lipogenesis and increases lipid catabolism in animal models of hyperlipidemia.



Bulk quantities available upon request

Product ID Size

M1566 5 mg

M1566 25 mg

M1566 100 mg

References Kook S, Kim GH, Choi K. The antidiabetic effect of onion and garlic in experimental diabetic rats: meta-analysis. *J Med Food*. 2009 Jun;12(3):552-60. PMID: 19627203.

Kumari K, Augusti KT. Lipid lowering effect of S-methyl cysteine sulfoxide from *Allium cepa* Linn in high cholesterol diet fed rats. *J Ethnopharmacol*. 2007 Feb 12;109(3):367-71. PMID: 16987625.

Kumari K, Augusti KT. Antidiabetic and antioxidant effects of S-methyl cysteine sulfoxide isolated from onions (*Allium cepa* Linn) as compared to standard drugs in alloxan diabetic rats. *Indian J Exp Biol*. 2002 Sep;40(9):1005-9. PMID: 12587728.

Komatsu W, Miura Y, Yagasaki K. Suppression of hypercholesterolemia in hepatoma-bearing rats by cabbage extract and its component, S-methyl-L-cysteine sulfoxide. *Lipids*. 1998 May;33(5):499-503. PMID: 9625597.

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