



LKT Laboratories, Inc.

Alyssin

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Product Information

Product ID A4496

CAS No. 646-23-1

Chemical Name 1-Isothiocyano-5-(methylsulfinyl)pentane;

Synonym 5-methylsulfinylpentyl isothiocyanate, 5-(Methylsulfinyl)-pentyl isothiocyanate

Formula C₇H₁₃NOS₂

Formula Wt. 191.32

Melting Point

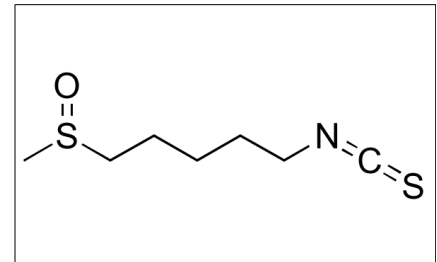
Purity ≥97%

Solubility Soluble in water, DMSO,
ethanol, chloroform.

Store Temp -20° C

Ship Temp Ambient

Description Alyssin is a sulfinyl analog of sulforaphane, an isothiocyanate (ITC). Alyssin exhibits antioxidative and anticancer activity. This compound inhibits the growth of colon cancer cells in vitro and induces phase II enzymes, increasing Nrf2 activity. Alyssin also decreases enzymatic metabolism of polycyclic aromatic hydrocarbons (PAHs), decreasing carcinogenic risk and displaying potential chemopreventive benefit.



Bulk quantities available upon request

Product ID	Size
A4496	25 mg
A4496	50 mg
A4496	100 mg
A4496	500 mg

References Lubelska K, Misiewicz-Krzemińska I, Milczarek M, et al. Isothiocyanate-drug interactions in the human adenocarcinoma cell line Caco-2. *Mol Cell Biochem.* 2012 Aug;367(1-2):19-29. PMID: 22527941.

Kim MJ, Kim SH, Lim SJ. Comparison of the apoptosis-inducing capability of sulforaphane analogues in human colon cancer cells. *Anticancer Res.* 2010 Sep;30(9):3611-9. PMID: 20944144.

Skupinska K, Misiewicz-Krzeminska I, Stypulkowski R, et al. Sulforaphane and its analogues inhibit CYP1A1 and CYP1A2 activity induced by benzo[a]pyrene. *J Biochem Mol Toxicol.* 2009 Jan-Feb;23(1):18-28. PMID: 19202560.

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