



LKT Laboratories, Inc.

Diallyl Tetrasulfide

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

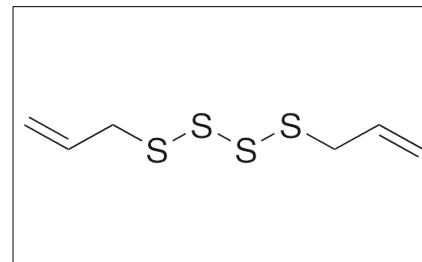
Product ID D3203
CAS No. 2444-49-7
Chemical Name 3-(prop-2-enyltetrasulfanyl)prop-1-ene

Synonym Allyl tetrasulfide; Diallyl tetrasulphide; di-2-propenyl tetrasulfide

Formula $C_6H_{10}S_4$
Formula Wt. 210.40
Melting Point
Purity $\geq 90\%$
Solubility

Store Temp $-80^{\circ}C$
Ship Temp Blue Ice

Description Diallyl tetrasulfide is an organosulfur that displays anticancer, antioxidative, and antimicrobial properties. In vitro, diallyl tetrasulfide increases reactive oxygen species (ROS) and heme oxygenase-1 levels and inhibits microtubule polymerization, inducing mitotic arrest. Diallyl tetrasulfide exhibits antibacterial and antifungal benefit against many microbes, including including *Staphylococcus aureus*, methicillin-resistant *Staphylococcus aureus* (MRSA), and several species of *Candida* and *Aspergillus*. Additionally, this compound decreases cadmium-mediated oxidative damage in several animal models, increasing levels of superoxide dismutase, glutathione peroxidase, and other glutathione metabolizing enzymes.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D3203	5 mg	\$127.20
D3203	25 mg	\$363.40
D3203	100 mg	\$778.70

References Saidu NE, Abu Asali I, Czepukojc B, et al. Comparison between the effects of diallyl tetrasulfide on human retina pigment epithelial cells (ARPE-19) and HCT116 cells. *Biochim Biophys Acta*. 2013 Nov;1830(11):5267-76. PMID: 23948592.

Kelkel M, Cerella C, Mack F, et al. ROS-independent JNK activation and multisite phosphorylation of Bcl-2 link diallyl tetrasulfide-induced mitotic arrest to apoptosis. *Carcinogenesis*. 2012 Nov;33(11):2162-71. PMID: 22822094.

Ponnusamy M, Pari L. Protective role of diallyl tetrasulfide on cadmium-induced testicular damage in adult rats: a biochemical and histological study. *Toxicol Ind Health*. 2011 Jun;27(5):407-16. PMID: 21245201.

Tsao SM, Yin MC. In-vitro antimicrobial activity of four diallyl sulphides occurring naturally in garlic and Chinese leek oils. *J Med Microbiol*. 2001 Jul;50(7):646-9. PMID: 11444776.

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