



LKT Laboratories, Inc.

S-Trityl-L-cysteine

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

Product Information

Product ID T7232

CAS No. 2799-07-7

Chemical Name S-(Triphenylmethyl)-L-cysteine

Synonym NSC83265

Formula $C_{22}H_{21}NO_2S$

Formula Wt. 363.47

Melting Point

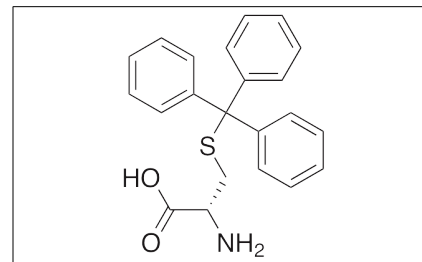
Purity $\geq 98\%$

Solubility Soluble in water (partly),
DMSO (5 mg/ml), and
methanol

Store Temp Ambient

Ship Temp Ambient

Description S-Trityl-L-cysteine (STLC) is an organosulfur compound found in garlic plants. STLC exhibits anticancer and potential chemotherapeutic activities across several models. STLC acts as a mitotic inhibitor, inhibiting mitotic kinesin Eg5 and preventing separation of duplicated chromosomes and formation of bipolar spindles during mitosis. In chronic myelogenous leukemia (CML) cells, STLC induces cleavage of poly(ADP)-ribose polymerase (PARP) and activation of caspase 3, resulting in apoptosis and cell death.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T7232	5 g	\$73.60
T7232	25 g	\$287.60
T7232	100 g	\$860.00

References Abualhasan MN, Good JA, Wittayanarakul K, et al. Doing the methylene shuffle--further insights into the inhibition of mitotic kinesin Eg5 with S-trityl L-cysteine. *Eur J Med Chem.* 2012 Aug;54:483-98. PMID: 22749640.

Shimizu M, Ishii H, Ogo N, et al. S-trityl-L-cysteine derivative induces caspase-independent cell death in K562 human chronic myeloid leukemia cell line. *Cancer Lett.* 2010 Dec 1;298(1):99-106. PMID: 20619960.

Kozielski F, Skoufias DA, Indorato RL, et al. Proteome analysis of apoptosis signaling by S-trityl-L-cysteine, a potent reversible inhibitor of human mitotic kinesin Eg5. *Proteomics.* 2008 Jan;8(2):289-300. PMID: 18186019.

Skoufias DA, DeBonis S, Saoudi Y, et al. S-trityl-L-cysteine is a reversible, tight binding inhibitor of the human kinesin Eg5 that specifically blocks mitotic progression. *J Biol Chem.* 2006 Jun 30;281(26):17559-69. PMID: 16507573.

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