



LKT Laboratories, Inc.

S-(N-Benzylthiocarbamoyl)-L-cysteine

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Product Information

Product ID B1655

CAS No. 35446-36-7

Chemical Name L-Cysteine, (phenylmethyl)carbamodithioate (ester)

Synonym Benzyl isothiocyanate cysteine conjugate

Formula C₁₁H₁₄N₂O₂S₂

Formula Wt. 270.37

Melting Point 191-193°C

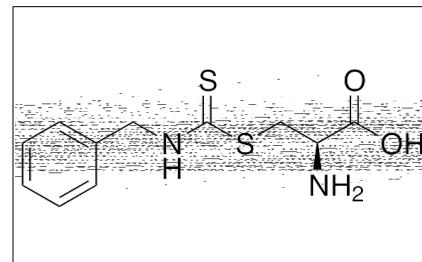
Purity ≥98%

Solubility Soluble in water.

Store Temp -20°C

Ship Temp Ambient

Description This compound is a cysteine conjugate of benzyl isothiocyanate (BITC) that exhibits anticancer activity. In vitro, this ITC conjugate inhibits leukemia cell growth and induces apoptosis in bladder cancer cells. This compound also inhibits N-dimethylnitrosamine demethylase, preventing nitrosamine activation and displaying potential chemopreventive benefit.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B1655	500 mg	\$115.20
B1655	1 g	\$199.60
B1655	5 g	\$672.60

References Tang L, Li G, Song L, et al. The principal urinary metabolites of dietary isothiocyanates, N-acetylcysteine conjugates, elicit the same anti-proliferative response as their parent compounds in human bladder cancer cells. *Anticancer Drugs*. 2006 Mar;17(3):297-305. PMID: 16520658.

Jiao D, Conaway CC, Wang MH, et al. Inhibition of N-nitrosodimethylamine demethylase in rat and human liver microsomes by isothiocyanates and their glutathione, L-cysteine, and N-acetyl-L-cysteine conjugates. *Chem Res Toxicol*. 1996 Sep;9(6):932-8. PMID: 8870979.

Adesida A, Edwards LG, Thornalley PJ. Inhibition of human leukaemia 60 cell growth by mercapturic acid metabolites of phenylethyl isothiocyanate. *Food Chem Toxicol*. 1996 Apr;34(4):385-92. PMID: 8641665.

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