LKT Laboratories, Inc.

S-(N-3-Phenylpropylthiocarbamoyl)-L-cysteine

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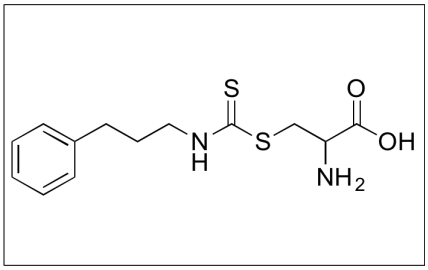
Product Information

Product ID P2816
CAS No. 137915-13-0
Chemical Name

Synonym S-(*N*-(3-Phenylpropyl)(thiocarbamoyl))-cysteine



Formula $C_{13}H_{18}N_2O_2S_2$
Formula Wt. 298.42
Melting Point 202-205°C
Purity ≥98%
Solubility Soluble in DMSO (4 mg/mL), water.

Bulk quanitites available upon request

Product ID	Size
P2816	100 mg
P2816	500 mg
P2816	1 g

Store Temp -20°C
Ship Temp Ambient

Description This compound is a cysteine-isothiocyanate conjugate that exhibits antioxidative, cytoprotective, nephroprotective, and chemopreventive activities. In vivo, this compound decreases lung tumor formation induced by benzo[a]pyrene and NNK. Additionally, this isothiocyanate (ITC) increases expression and activity of heme oxygenase 1 (HO-1) and decreases renal tissue apoptosis induced by cisplatin. Like other ITCs, this compound also acts as a phase II enzyme inducer.

References

Tayem Y, Green CJ, Motterlini R, et al. Isothiocyanate-cysteine conjugates protect renal tissue against cisplatin-induced apoptosis via induction of heme oxygenase-1. Pharmacol Res. 2014 Mar;81:1-9. PMID: 24434421.

Hecht SS, Upadhyaya P, Wang M, et al. Inhibition of lung tumorigenesis in A/J mice by N-acetyl-S-(N-2-phenethylthiocarbamoyl)-L-cysteine and myo-inositol, individually and in combination. Carcinogenesis. 2002 Sep;23(9):1455-61. PMID: 12189187.