



LKT Laboratories, Inc.

3-Phenylpropyl Isothiocyanate

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Product Information

Product ID P2515

CAS No. 2627-27-2

Chemical Name 3-isothiocyanatopropylbenzene

Synonym Phenylpropyl isothiocyanate

Formula C₁₀H₁₁NS

Formula Wt. 177.27

Melting Point

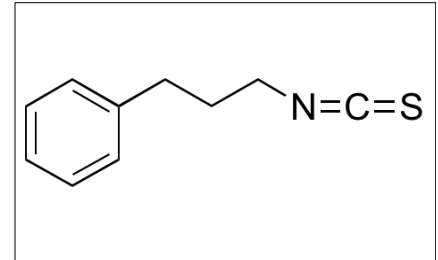
Purity ≥98%

Solubility Soluble in DMSO.

Store Temp -20°C

Ship Temp Ambient

Description 3-Phenylpropyl isothiocyanate is a synthetic isothiocyanate (ITC) 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 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.



Bulk quantities available upon request

Product ID	Size
P2515	1 g
P2515	5 g
P2515	10 g

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.

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