



LKT Laboratories, Inc.

(±)-Goitrin

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Product Information

Product ID G571344

CAS No. 13190-34-6

Chemical Name 5-ethenyl-2-oxazolidinethione

Synonym 5-Vinyloxazolidinone-2-thione, DL-Goitrin, R,S-Goitrin

Formula C₅H₇NOS

Formula Wt. 129.18

Melting Point 61-66 °C

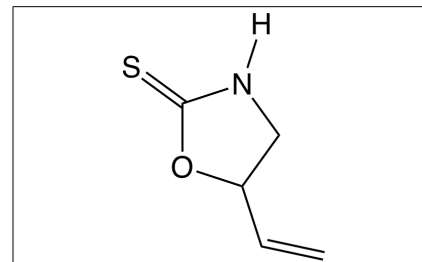
Purity ≥98%

Solubility

Store Temp -20 °C

Ship Temp Ambient

Description (±)-Goitrin is a bioactive component found in cruciferous vegetables and other plants such as *Isatis indigotica*. In a study using a rat model, the presence of (±)-goitrin in the diet resulted in a hypothyroid state. The biological activities of the individual enantiomers are curiously different from one another, with one enantiomer responsible for an antiviral effect and the other enantiomer responsible for an antithyroid effect.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G571344	5 mg	\$185.00
G571344	25 mg	\$264.00
G571344	100 mg	\$528.00

References Li J, Shi Y, Xu Y, et al. Metabolic profiles and pharmacokinetics of goitrin in rats through liquid chromatography combined with electrospray ionization-tandem mass spectrometry. *Biomed Chromatogr.* 2019 Oct;33(10):e4606. PMID: 31132308.

Wooding S, Gunn H, Ramos P, et al. Genetics and bitter taste responses to goitrin, a plant toxin found in vegetables. *Chem Senses.* 2010 Oct;35(8):685-692. PMID: 20551074.

Kelley MK, Bjeldanes LF. Modulation of glutathione S-transferase activity and isozyme pattern in liver and small intestine of rats fed goitrin- and T3-supplemented diets. *Food Chem Toxicol.* 1995 Feb;33(2):129-137. PMID: 7532609.

Nie L, Dai Z, Ma S. Stereospecific assay of (R)- and (S)-Goitrin in commercial formulation of *Radix Isatidis* by reverse phase high-performance liquid chromatography. *J Anal Methods Chem.* 2017;2017:2810565. PMID: 28894621.

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