LKT Laboratories, Inc.

L-(+)-Alliin

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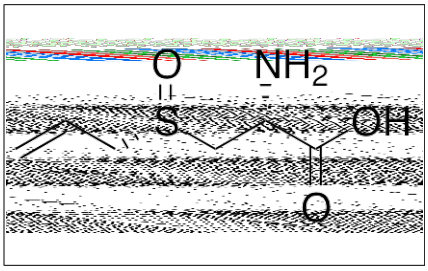
Product Information

Product ID A4443
CAS No. 556-27-4
Chemical Name 3-[(S)-2-Propenylsulfinyl]-L-alanine

Synonym S-Allyl-L-cysteine sulfoxide, 3-(Allylsulfinyl)alanin, Alliin, EINECS 209-118-9, S-Allyl-L-cysteine-S-oxide

Formula $C_6H_{11}NO_3S$
Formula Wt. 177.22
Melting Point 164-166°C
Purity ≥98%
Solubility Soluble in water, PBS (10 mg/mL). Insoluble in ethanol, or acetone.

Store Temp -20°C
Ship Temp Ambient



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A4443	5 mg	$115.40
A4443	10 mg	$197.40
A4443	25 mg	$387.20
A4443	50 mg	$657.20
A4443	100 mg	$1176.50

Description L-(+)-Alliin is a cysteine derivative originally found in *Allium sativum* (garlic); it exhibits anti-inflammatory, neuromodulatory, anti-diabetic, anti-hyperlipidemic, antioxidative, cardioprotective, and anti-angiogenic activities; it is the optically active and orally bioavailable isomer of alliin. In adipocytes, it inhibits LPS-stimulated activation of ERK1/2 and increases in inflammatory signaling. In animal models of myocardial infarction, it increases activity of superoxide dismutase, glutathione peroxidase, catalase, and glutathione-S-transferase. L-Alliin also activates NMDA-R subunits NR2A and NR2B. In diabetic rats, this compound decreases levels of LDL, VLDL, glucose, triglycerides, total cholesterol, and total lipids. Additionally, it inhibits VEGF-induced angiogenesis and FGF2 and VEGF secretion in fibrosarcoma cells.

References

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