



LKT Laboratories, Inc.

Tenuazonic Acid Copper Salt

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Product Information

Product ID T1952

CAS No. 12427-40-6

Chemical Name Copper(2+) bis(4-acetyl-2-sec-butyl-5-oxo-2,5-dihydro-1H-pyrrol-3-olate)

Synonym 3-Pyrrolin-2-one, 3-acetyl-5-sec-butyl-4-hydroxy-, L-L-Tenuazonic acid copper salt; 4-acetyl-2-butan-2-yl-3-hydroxy-1,2-dihydropyrrol-5-one coper salt

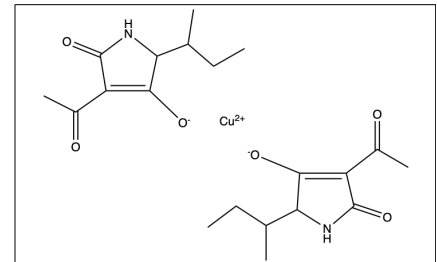
Formula C₂₀H₂₈CuN₂O₆

Formula Wt. 455.99

Melting Point

Purity ≥98%

Solubility Soluble in DMSO and ethanol.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size
T1952	1 mg
T1952	5 mg

Store Temp 4° C

Ship Temp Ambient

Description Tenuazonic acid (TA) copper salt is a mycotoxin initially produced by *Alternaria* fungi and occurs primarily in grains. TA inhibits photosynthesis in chloroplasts and increases generation of ROS such as hydrogen peroxide, superoxide radicals, and hydroxide radicals, resulting in cell destruction and leaf necrosis.

References Schwarz C, Kreutzer M, Marko D. Minor contribution of alternariol, alternariol monomethyl ether and tenuazonic acid to the genotoxic properties of extracts from *Alternaria alternata* infested rice. *Toxicol Lett.* 2012 Oct 2;214(1):46-52. PMID: 22906495.

Chen S, Yin C, Qiang S, et al. Chloroplastic oxidative burst induced by tenuazonic acid, a natural photosynthesis inhibitor, triggers cell necrosis in *Eupatorium adenophorum* Spreng. *Biochim Biophys Acta.* 2010 Mar;1797(3):391-405. PMID: 20026008.

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