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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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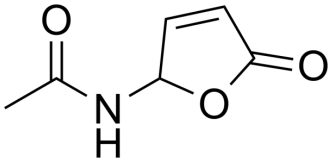
5-Acetamide-Butenolide

Cat. No.:	HY-W402074
CAS No.:	16275-44-8
Molecular Formula:	$C_6H_7NO_3$
Molecular Weight:	141.12
Target:	Mitochondrial Metabolism; Reactive Oxygen Species
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5-Acetamide-Butenolide (Butenolide) is a mycotoxin with pro-oxidant activity, which is found in Fusarium. 5-Acetamide-Butenolide disrupts the mitochondrial membrane potential in primary neonatal rat cardiomyocytes. 5-Acetamide-Butenolide also induces the production of thiobarbituric acid reactive substances (TBARS) in isolated rat myocardial mitochondria. 5-Acetamide-Butenolide increases the production of reactive oxygen species (ROS), decreases the levels of GSH and reduces the viability of HepG2 cells[1][2][3].

REFERENCES

[1]. Yates S G, et al. Mycotoxins produced by Fusarium nivale isolated from tall fescue (Festuca arundinacea Schreb.)[J]. Phytochemistry, 1968, 7(1): 139-146.

[2]. Wang YM, et al. Effects of Fusarium mycotoxin butenolide on myocardial mitochondria in vitro. Toxicol Mech Methods. 2009 Feb;19(2):79-85.

[3]. Wang YM, et al. Depletion of intracellular glutathione mediates butenolide-induced cytotoxicity in HepG2 cells. Toxicol Lett. 2006 Jul 14;164(3):231-8.

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