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Zuschläge

- Mindermengenzuschlag
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Xanthine oxidase, bovine milk

Cat. No.:	HY-P2755A	
CAS No.:	9002-17-9	
Target:	Reactive Oxygen Species	
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB	Xanthine oxidase, bovine milk
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description	Xanthine oxidase, bovine milk is a xanthine oxidoreductase enzyme that generates reactive oxygen species (ROS), catalyzes the oxidation of hypoxanthine to xanthine, and further catalyzes the oxidation of xanthine to uric acid ^[1] .
In Vitro	Xanthine oxidase rapidly and completely depletes hypoxanthine in human erythrocytes ^[2] . Xanthine oxidase (20 mU/mL, 72 h) inhibits the growth of Plasmodium falciparum in human erythrocytes ^[2] . Xanthine oxidase (0.02 U/mL, 6 h) reduces the viability of postnatal cerebellar granule neurons obtained from 8-day old Sprague-Dawley rat pups ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Shehzad A, et al. Curcumin: A Potent Modulator of Multiple Enzymes in Multiple Cancers. *Enzymes*. 2014;36:149-74.
- [2]. Berman PA, et al. Xanthine oxidase inhibits growth of Plasmodium falciparum in human erythrocytes in vitro. *J Clin Invest*. 1991 Dec;88(6):1848-55.
- [3]. Fatokun AA, et al. Hydrogen peroxide mediates damage by xanthine and xanthine oxidase in cerebellar granule neuronal cultures. *Neurosci Lett*. 2007 Apr 6;416(1):34-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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