

Xanthine oxidase

Chemical Properties

CAS No. : 9002-17-9

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight, Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Xanthine oxidase (XO) is an enzyme involved in purine catabolism and conversion to uric acid, generating reactive oxygen species, used in the study of cardiovascular diseases.
Targets(IC50)	Reactive Oxygen Species, ROS
In vitro	In Xanthine oxidase (20 mU/ml, 72h), 90% growth inhibition of malaria parasite was observed in human O + red blood cells, with IC50 = 0.2mU /ml. [1] Administration of Xanthine oxidase (0.02 U/ml) for 1 or 6 h reduced the viability of 8 div cells and induced morphological changes, such as contraction of cell bodies and neurites. [2]
In vivo	The elevated level of Xanthine oxidase was positively correlated with chronic liver disease (cirrhosis, chronic hepatitis and cholestatic disease), and had nothing to do with liver injury indicators. [3]

Reference

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.

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.

Schmidt HM, et al. The impact of xanthine oxidase (XO) on hemolytic diseases. Redox Biol. 2019 Feb;21:101072.

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