

Product datasheet

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ARG82198
Xanthine Oxidase Activity Assay Kit (Colorimetric)

Package: 100 tests Store at: -20°C

Summary

Product Description ARG82198 Xanthine Oxidase Activity Assay Kit (Colorimetric) can be used to measure Xanthine Oxidase

activity in serum and cell lysate.

Tested Reactivity Hu, Ms, Rat, All

Tested Application FuncSt

Target Name Xanthine Oxidase

Conjugation Note Read at 570 nm (colorimetric), or 530/585 nm (fluorometric)

Sensitivity OD: 0.03 U/L; FL: 0.01 U/L

Detection Range 0.03 - 25 U/L (colorimetric); 0.01 - 2.5 U/L (fluorometric)

Sample Type serum and cell lysate

Sample Volume 10 µl

Alternate Names EC 1.17.1.4; XOR; XO; Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase; XD; EC

1.17.3.2; Xanthine oxidoreductase

Application Instructions

Application Note Please note that this kit does not include a microplate.

Assay Time 20 min

Properties

Form Liquid

Storage instruction Store the kit at -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage.

Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol XDH

Gene Full Name xanthine dehydrogenase

Background Xanthine dehydrogenase belongs to the group of molybdenum-containing hydroxylases involved in the

oxidative metabolism of purines. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Xanthine dehydrogenase can be converted to xanthine oxidase by reversible sulfhydryl oxidation or by irreversible proteolytic modification. Defects in xanthine dehydrogenase cause xanthinuria, may contribute to adult respiratory stress syndrome, and may potentiate influenza infection through an oxygen metabolite-dependent

mechanism. [provided by RefSeq, Jan 2014]

Function Key enzyme in purine degradation. Catalyzes the oxidation of hypoxanthine to xanthine. Catalyzes the

oxidation of xanthine to uric acid. Contributes to the generation of reactive oxygen species. Has also

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low oxidase activity towards aldehydes (in vitro). [UniProt]

PTM Subject to partial proteolysis; this alters the enzyme from the dehydrogenase form (D) to the oxidase

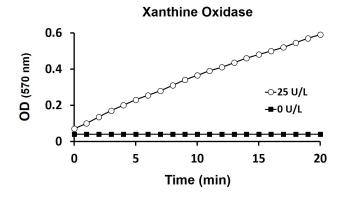
form (O).

Contains sulfhydryl groups that are easily oxidized (in vitro); this alters the enzyme from the

dehydrogenase form (D) to the oxidase form (O). [UniProt]

Cellular Localization Cytoplasm. Peroxisome. Secreted. [UniProt]

Images



ARG82198 Xanthine Oxidase Activity Assay Kit (Colorimetric) enzyme kinetics graph

Kinetics of 0 and 25 U/L Xanthine Oxidase reaction, using ARG82198 Xanthine Oxidase Activity Assay Kit (Colorimetric).