

Catalase (CAT) Assay Kit | CAT assay kit

Catalase (CAT) Activity Fluorometric Assay Kit

CATALOG #
AAA177768

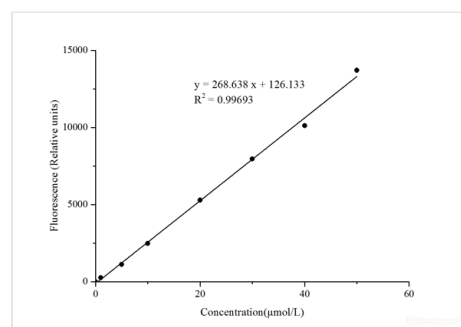
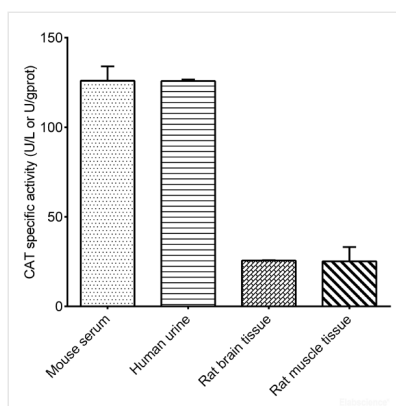
PRODUCT SYNONYMS

Catalase (CAT); Catalase (CAT) Activity Fluorometric Assay Kit; CAT assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, plasma, and tissue samples
Detection Range	0.01-6.51 U/L
Sensitivity	0.01 U/L
Preparation and Storage	Store at -20 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

Application Data

ADDITIONAL INFORMATION

Related Product Information for CAT assay kit

Intended Uses: This kit can be used to measure Catalase (CAT) activity in serum, plasma, and tissue samples.

Principle of the Assay: Catalase can decompose H₂O₂ to generate H₂O and O₂, the residual H₂O₂ in the detection system react with the fluorescent substance, and the content of residual H₂O₂ is proportional to the fluorescence intensity at the excitation wavelength of 535 nm and emission wavelength of 587 nm, the catalase activity is inversely proportional to the fluorescence intensity.

Background/Introduction: CAT is an enzyme in organism that can efficiently and specifically decompose hydrogen peroxide and is a binding enzyme with iron porphyrin as an auxiliary group. CAT clears hydrogen peroxide in the body and protects cells from the toxicity of H₂O₂. CAT can also oxidize certain cytotoxic substances, such as formaldehyde, formic acid, phenol and ethanol. According to the difference of catalytic center structure, CAT can be divided into two types, one is iron porphyrin structure, also known as iron porphyrin enzyme, the other contain manganese ion, also known as manganese catalase. CAT is common in breathing organisms. It is mainly found in chloroplasts, mitochondria, endoplasmic reticulum, liver and red blood cells of animals.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/catalase-cat/177768>