# **BioVision**

# Catalase, Human Erythrocytes

**CATALOG #**: 4712-1000

AMOUNT: 1 mg

**SOURCE:** Human Erythrocyte. Shown to be non reactive for HBsAg,

anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA

approved tests.

**PURITY:** ≥95% by SDS-PAGE

**MOLECULAR WT:** 244,000;  $\varepsilon_{0.1\%}$  (280 nm) = 1.39

NATIVE STRUCTURE: Homotetramer

**SUBUNIT:** 59,700

**FORM:** Frozen in 50 mM Tris-HCl, pH 8.0

**STORAGE:** -70°C or lower

**ACTIVITY:** > 50,000 units per mg protein. One unit is equal to the

amount of enzyme that will decompose one micromole of

hydrogen peroxide per minute at 25°C, pH 7.0.

**DESCRIPTION:** Composed of four identical subunits each with a molecular

weight of 59,700. Catalyzes the reaction  $2H_2O_2$  to  $H_2O+O_2$ . Catalase, along with the superoxides dismutase and glutathione peroxidase, controls the levels of oxygenderived free radicals in mammalian cells, and together may

function as a somatic oxidant defense.

#### **RELATED PRODUCTS:**

- Catalase Assay Kit (Cat. No. K773-100)
- Catalase Polyclonal Antibody (Cat. No. 3806-100)

## **OTHER RELATED PRODUCTS:**

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- LDH-Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC & HAT Fluorometric & Colorimetric Assays & Drug Discovery Kits
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- SOD Assay Kit

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Metabolism Assays

- Glucose, Frutose, Galactose, Maltose & more assays
- Lactate, Pyruvate, Glycogen, Sarcosine assays
- Cholesterol, HDL/LDL, Triglyceride, CETP, PLTP assays

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit

Cytokines & Growth Factorsa

Monoclonal & Polyclonal Antibodies

FOR RESEARCH USE ONLY! Not to be used on humans.