

## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** 9607 **Lot #:** n/a

**Description:** Human Superoxide Dismutase  
Secreted Human Superoxide Dismutase  
Molecular Weight: Calculated ~17 kDa  
Based on 12% reducing SDS-PAGE, two equal intensity bands at ~ 22 kDa and ~18 kDa.

**Source:** Insect Cells

**Format:** Affinity Purified, Liquid

**Purity:** ≥ 85% (SDS-PAGE)

**Concentration:** (Lot Specific) mg/mL (BCA)

**Buffer:** Phosphate Buffered Saline, pH 7.4

**Preservative:** None

**Applications:** Suitable for use in ELISA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. There are three known SOD isoforms in mammals. SOD1 and SOD2 are expressed in practically all cells. High expression of Sod3 was identified in selected tissues, particularly in blood vessels, lung, kidney, and heart. Alterations in the expression level or catalytic activity of SODs have been found in a variety of pathological conditions, including familial amyotrophic lateral sclerosis (ALS), hypertension, atherosclerosis, inflammatory bowel disease (IBD), obesity, diabetes, Chronic obstructive pulmonary diseases (COPD) etc. <sup>[1, 2]</sup>

**Storage:** Store at -20°C, avoid repeated freeze thaws.

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

**References:** The references listed below are for research purposes only:  
1. Superoxide dismutases: Dual roles in controlling ROS damage and regulating ROS signaling. J. Cell Biol. 2018 Vol. 217 No. 6 1915–1928.  
2. The copper-zinc superoxide dismutase activity in selected diseases. Eur J Clin Invest. 2019;49:e13036.

QA Signature

22 September 2021  
Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**