



Recombinant Protein Technical Manual

Recombinant Human Catalase/CAT Protein

RPES3921

Product Data:

Product SKU: RPES3921

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P04040

Protein Information:

Molecular Mass: 59.7 kDa

AP Molecular Mass: 60 kDa

Tag:

Bio-activity:

Purity: > 85% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: MGC138422;MGC138424

Immunogen Information:

Sequence: Ala2-Leu527

Background:

Catalase (CAT) is a member of the catalase family. It exists as a homotetramer that occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Catalase is localized in the peroxisome. Catalase promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells, and normal and transformed fibroblast cells. Defects in CAT are the cause of acatalasemia which is characterized by absence of catalase activity in red cells and is associated with ulcerating oral lesions.