

Catalase/CAT Protein, Human, Recombinant

General Information

Synonyms:	CAT;Catalase
Protein Construction:	Ala2-Leu527
Species:	Human
Expression Host:	E. coli
Accession:	P04040
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Ala2-Leu527

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

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