

## Catalase Protein, Bacillus (FLAG, His)

Cat. No.:	HY-P702156
Synonyms:	Catalase
Species:	Others
Source:	E. coli
Accession:	A0A5Q2YYB9 (M1-A483)
Gene ID:	/
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	Catalase is an enzyme that plays a crucial role in cellular defense by catalyzing the degradation of hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) to water and oxygen. This enzymatic activity is particularly important for neutralizing the toxic effects of hydrogen peroxide, a reactive oxygen species generated by peroxisomal oxidases. By efficiently converting hydrogen peroxide into non-toxic byproducts, catalase serves as a key component of the antioxidant defense system, protecting cells from oxidative stress. Several researches indicate that catalase's protective role extends to various cell types, promoting the growth of T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells, and both normal and transformed fibroblast cells. This highlights catalase's significance in maintaining cellular homeostasis and supporting the growth of diverse cell populations.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA