

## 32-8107: Recombinant Human Catalase/CAT

**Gene :** CAT  
**Gene ID :** 847  
**Uniprot ID :** P04040

### Description

Source: E. coli.  
MW :59.7kD.

Recombinant Human Catalase is produced by our E.coli expression system and the target gene encoding Ala2-Leu527 is expressed. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** ADSRDPASDQMQRHWEQRAAQKADVLTTGAGNPVGDKLVITVGPRGPLLVQDVVFTDEMAHFD  
RERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRDPRGF  
AVKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSQKRNPQTHLKDPDMVWDFWLSRPESLHQVSF  
LFSDRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHFKTDQGIKNLSVEDAARLSQEDPDYGIR  
DLFNAIATGKYPSWTFYIQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVNLRNPVNYFAEVE  
QIAFDPSNMPPGIEASPDKMLQGRLFAYPDTHRHRLGPNYLHIPVNCYPYRVRVANYQRDGPMMCMQ  
DNQGGAPNYYPNSFGAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAFVYVNLNNEEQRKRL  
CENIAGHLKDAQIFIQKKAVKNFTEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHLAAREKANL

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.