

CAT, 1-527aa, Human, His tag, E.coli

Cat.NO.: TP01434

3th Edition

Synonyms:Catalase.

Description:CAT is a key antioxidant enzyme in the bodies defense against oxidative stress. Also, it is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. CAT converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Molecular Weight:61.9 kDa (547aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMADSRDPASDQMQRHWKEQRAAQKADVLTGAGNPVGDKLNIVTVGPRGPLLVQ
DVVFTDEMAHFDRERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRDPR
GFAVKFYTEDGNWDLVGNNTPIFFIRDPIILFSPFIHSQKRNPQTHLKDPDMVWDFWLSLRPESLHQVSFLFSDRGIPD
GHRHMNGYGSHTFKLVNANGEAVYCKFHFKTDQGKLNLSVEDAARLSQEDPDYGIRDLFNAIATGKYPSWTFYIQV
MTFNQAETFPFNPFDLTKVWPHKDYPLIPVGLVLRNRPVNYFAEVEQIAFDPSNMPPGIEASPDKMLQGRLFAYP
DTHRHRLLGPNYLHIPVNCPYRVRVANYQRDGPMMQDNQGGAPNYYPNPNSFGAPEQQPSALEHSIQYSGEVRRFN
TANDDNVTQVRAFVYVNLNNEEQKRRLCENIAGHLKDAQIFIQKKA VKNFTEVHPDYGSHIQALLDKYNAEKPKNAIH
TFVQSGSHLAAREKANL

Purity:> 95% by HPLC

Concentration:1 mg/ml

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.