



Recombinant Bovine Glutathione peroxidase 1 (GPX1)

Product Code	CSB-EP009866BO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P00435
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	MCAAQRSAAA LAAAAPRTVY AFSARPLAGG EPFNLSSLRG KVLLIENVAS LUGTTVRDYT QMNDLQRRLG PRGLVVLGFP CNQFGHQENA KNEEILNCLK YVRPGGGFEP NFMLFEKCEV NGEKAHPLFA FLREVLPTPS DDATAALMTDP KFITWSPVCR NDVSWNFEKF LVGPDGVPVR RYSRRFLTID IEPDIETLLS QGASA
Source	E.coli
Target Names	GPX1
Protein Names	Recommended name: Glutathione peroxidase 1 Short name= GPx-1 Short name= GSHPx-1 EC= 1.11.1.9 Alternative name(s): Cellular glutathione peroxidase
Expression Region	1-205
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a member of the glutathione peroxidase family. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. This protein is one of only a few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by UGA, that normally functions as a translation termination codon. In addition, this protein is characterized in a polyalanine sequence polymorphism in the N-terminal region, which includes three alleles with five, six or seven alanine (ALA) repeats in this sequence. The allele with five ALA repeats is significantly associated with breast cancer risk. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.