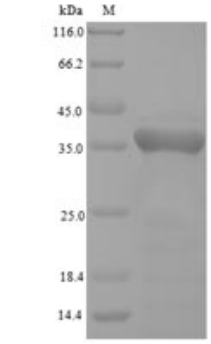
Recombinant Pongo pygmaeus Phospholipid hydroperoxide glutathione peroxidase (GPX4) (U73S), partial

Product Code	CSB-EP670014EXP
Relevance	Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative damage
Storage	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.
Uniprot No.	Q4AEH2
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	ongo pygmaeus (Bornean orangutan)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSLGRLCRLLKPALLCGALAAPGLAGTMCASRDDWRCARSMHEFSAKDIDGH MVNLDKYRGFVCIVTNVASQUGKTEVNYTQLVDLHARYAECGLRILAFPCNQF GKQEPGSNEEIKEFAAGYNVKFDMFSKICVNGDDAHPLWKWMKIQPKGKGIL GNAIKWNFTKFLI
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	GPX4
Expression Region	28-197aa(U73S)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	35.0kDa
Protein Description	Cytoplasmic Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

In the general process of expressing the recombinant ongo pygmaeus (Bornean orangutan) GPX4 protein, a plasmid encoding the ongo pygmaeus (Bornean orangutan) GPX4 protein (28-197aa(U73S)) is constructed first. The plasmid is transferred into e.coli cells, from which cells containing the plasmid are selected and cultured to express the protein. A N-terminal 6xHis-SUMO tag is fused to the protein. The recombinant ongo pygmaeus (Bornean orangutan) GPX4 protein undergoes affinity purification purification and SDS-PAGE analysis. This protein surpasses a purity level of 90%.