

**GPX2(U40C), 1-190aa, Human, His tag, E.coli**

**Cat.NO.: TP02327**

3th Edition

**Synonyms:**Glutathione peroxidase 2, GI-GPx, GPRP, GSHPx-2, GSHPX-GI.

**Description:**GPX2, also known as glutathione peroxidase 2, belongs to the glutathione peroxidase family, consisting of eight known glutathione peroxidases (Gpx1-8) in humans. Glutathione peroxidase functions in the detoxification of hydrogen peroxide, and is one of the most important antioxidant enzymes in humans. GPX2 could play a major role in protecting mammals from the toxicity of ingested organic hydroperoxides.

**Form:**Liquid. 20mM Tris-HCl buffer (pH7.5) containing 40% glycerol, 0.15M NaCl, 1mM DTT

**Molecular Weight:**24.1 kDa (210aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAFIAKSFYDLSAISLDGEKVDFNTFRGRAVLIENVASLCGTTTRDFTQLNELQCR  
FPRRLVVLGFPCNQFGHQENCQNEEILNSLKYVRPGGGYQPTFTLVQKCEVNGQNEHPVFAYLKDKLPYPYDDPF  
SLMTDPKLIWSPVRRSDVAWNFEKFLIGPEGEPFRRYSRTFPTINIEPDIKRLKVAI

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**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.