

**GPX3(U73C), 21-226aa, Human, His tag, E.coli**

**Cat.NO.: TP02328**

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3th Edition

**Synonyms:**Glutathione peroxidase 3, GPx-P, GSHPx-3, GSHPx-P.

**Description:**GPX3, also known as glutathione peroxidase 3, belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. GPX3 protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione. 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 the nonsense (stop) codon TGA.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT, 50mM Imidazole.

**Molecular Weight:**25.7 kDa (227aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMQSRGQEKSKMDCHGGISGTIYEY GALTIDGEEYIPFKQYAGKYVLFVNVASYCG  
LTGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEKGDVNGEKEQKFYTF  
LKNSCPPTSELLGTSDFLWFPEMKVHDIRWNFEKFLVGPDGIPIMRWHHR TTVSNVKMDILSYMRRQAALGVKRR

**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.