
Product Data Sheet

Product Name: GPX2 Human
 Cat. No.: GP21727
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione peroxidase 2; GPx-2; GSHPx-2; Gastrointestinal glutathione peroxidase; Glutathione peroxidase-gastrointestinal; GPx-GI; GSHPx-GI; Glutathione peroxidase-related protein 2; GPRP-2; GPX2; GPRP; GI-GPx.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAFIAKSFYD LSAISLDGEK VDFNTFRGRA VLIENVASLC GTTTRDFTQL NELQCRFPRR LVVLGFPCNQ FGHQENCQNE EILNSLKYVR PGGGYQPTFT LVQKCEVNGQ NEHPVFAYLK DKLPYPYDDP FSLMTDPKLI IWSPVRRSDV AWNFEKFLIG PEGEPFRRYS RTFPTINIEP DIKRLKVAI.		
Formulation	The GPX2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH7.5), 40% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

Glutathione peroxidase 2 (GPX2) is a member of the glutathione peroxidase family, consisting of 8 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 may have a major role in protecting mammals from the toxicity of ingested organic hydroperoxides. GPX2 is one of only a few proteins known in higher vertebrates to contain selenocysteine, which appears at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

GPX2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (1-190) and having a molecular mass of 24.1kDa. GPX2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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