
Product Data Sheet

Product Name: GPX7 Human
 Cat. No.: GP21729
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione peroxidase 7; glutathione peroxidase 6; GPX6; NPGPx; CL683; GPx-7; GSHPx-7; non-selenocysteine containing phospholipid hydroperoxide glutathione peroxidase; FLJ14777; EC 1.11.1.9.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMQEQD FYDFKAVNIR GKLVSLEKYR GSVSLVNVVA SECGFTDQHY RALQQLQRDL GPHHFNVLAF PCNQFGQQEP DSNKEIESFA RRTYSVSFPM FSKIAVTGTG AHPAFKYLAQ TSGKEPTWNF WKYLVAPDGK VVGAWDPTVS VEEVRPQITA LVRKLILLKR EDL		
Formulation	The GPX7 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.		

Introduction

GPX7 is a member of the glutathione peroxidase family. Glutathione peroxidases (GPx) are a family of enzymes with peroxidase activity whose central biological role is to guard the organism from oxidative damage by reducing lipid hydroperoxides to their corresponding alcohols and to reduce free hydrogen peroxide to water.

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.

Background

GPX7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 193 amino acids (20-187) and having a molecular mass of 21.8kDa. GPX7 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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