

Datasheet for ABIN7566163

## Glutathione Peroxidase 1 Protein (GPX1) (AA 1-201) (His tag)



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### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 3 x 10 µg   |
| Target:                       | Glutathione Peroxidase 1 (GPX1)                                 |
| Protein Characteristics:      | AA 1-201  |
| Origin:                       | Human   |
| Source:                       | Escherichia coli (E. coli)                                      |
| Protein Type:                 | Recombinant   |
| Biological Activity:          | Active  |
| Purification tag / Conjugate: | This Glutathione Peroxidase 1 protein is labelled with His tag. |

### Product Details

|                              |  |
|------------------------------|--|
| Purpose:                     | GPX1 (human) (rec.) (His)                                      |
| Cross-Reactivity:            | Human  |
| Characteristics:             | Human GPX1 (aa 1-201) is fused at the C-terminus to a His-tag. |
| Purity:                      | >90 % (SDS-PAGE)   |
| Endotoxin Level:             | <0.01EU/µg purified protein (LAL test, Lonza).                 |
| Biological Activity Comment: | Catalytic activity: Not tested.                                |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | Glutathione Peroxidase 1 (GPX1)        |
| Alternative Name: | GPX1 ( <a href="#">GPX1 Products</a> ) |

## Target Details

|                   |  |
|-------------------|--|
| Background:       | Glutathione Peroxidase 1, Cellular Glutathione Peroxidase, GPx-1, GSHPx-1<br>Glutathione peroxidase 1 (GPX1) is an antioxidant enzyme that is down-regulated in cancer cells. Protects the hemoglobin in erythrocytes from oxidative breakdown. Its main role is the prevention of cancer initiation by ROS-mediated DNA damage. |
| Molecular Weight: | ~25kDa (SDS-PAGE)  |
| UniProt:          | <a href="#">P07203</a>   |
| Pathways:         | <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Cell RedoxHomeostasis</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a> , <a href="#">SARS-CoV-2 Protein Interactome</a>                      |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |  |
|------------------|--|
| Format:          | Lyophilized  |
| Buffer:          | In PBS.  |
| Handling Advice: | After reconstitution, prepare aliquots and store at -20 °C.Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.   |
| Storage:         | 4 °C,-20 °C  |
| Storage Comment: | Short Term Storage: +4°C<br>Long Term Storage: -20°C<br>Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |