

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### GCSm- $\gamma$ (V91) Peptide

Cat No.: BS2927P

#### Background

Gamma-glutamylcysteine synthetase ( $\gamma$ -GCS) is the rate limiting enzyme for glutathione (L- $\gamma$ -glutamyl-L-cysteinylglycine, GSH) synthesis. GSH is ubiquitous in mammalian cells as a vital intra- and extracellular protective antioxidant.  $\gamma$ -GCS is a heterodimer of a heavy catalytic subunit and a light regulatory subunit that is responsive to inflammation, phenolic antioxidants, heat shock, oxidants and cytokines. The human  $\gamma$ -GCS gene encoding the 367 amino acid catalytic subunit maps to chromosome 6p12. The human  $\gamma$ -GCS gene encoding the regulatory subunit maps to chromosome 1p22-p21. The two subunits of  $\gamma$ -GCS form a heterodimeric zinc metalloprotein that gains activity through formation of a reversible disulfide bond.

#### Swiss-Prot

P48507

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2927 GCSm- $\gamma$  (V91) pAb.

#### Purification & Purity

Synthetic peptide GCSm- $\gamma$  (V91). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.