

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### GCSc- $\gamma$ (E315) Peptide

Cat No.: BS2926P

#### Background

The GCLC gene consists of 16 exons and encodes the 636 amino acid protein  $\gamma$ -GCSc ( $\gamma$ -glutamylcysteine synthetase heavy subunit), also designated  $\gamma$ -Lglutamate- L-cysteine ligase catalytic subunit (GLCLC).  $\gamma$ -GCSc is expressed in hemocytes, brain, liver and kidney.  $\gamma$ -GCSc associates with a regulatory or modifier subunit,  $\gamma$ -GCSm ( $\gamma$ -glutamylcysteine synthetase light subunit), to form a heterodimer,  $\gamma$ -GCS.  $\gamma$ -GCS is the first enzyme involved and the rate determining step in glutathione i-synthesis. Oxidants, cadmium and methyl mercury upregulate the transcription of  $\gamma$ -GCS. H<sub>2</sub>O<sub>2</sub> regulation depends on the Yap1 protein and the presence of glutamate, glutamine and lysine. Cadmium regulates transcription through proteins Met-4, Met-31 and Met-32. Cbf1, a DNA binding protein, inhibits transcription of  $\gamma$ -GCS.

#### Swiss-Prot

P48506

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2926 GCSc- $\gamma$  (E315) pAb.

#### Purification & Purity

Synthetic peptide GCSc- $\gamma$  (E315). (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.