



## gamma-Glutamylcysteine Ligase Activity Assay kit

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gamma-Glutamylcysteine Ligase (GCL) is the rate-limiting enzyme of GSH synthesis, and GSH has a feedback inhibitory effect on GCL. GCL gene expression is regulated by many factors, such as oxidants, antioxidants, growth factors and inflammatory factors. The activity of GCL has an important influence on the content of GSH and the ratio of GSH/GSSG.

In the presence of ATP and  $Mg^{2+}$ , GCL catalyzes the synthesis of gamma-glutamylcysteine from glutamic acid and cysteine; at the same time, ATP dephosphorylates to produce inorganic phosphorus molecules. By measuring the increase rate of inorganic phosphorus, you can Calculate GCL activity.

Catalog No.	250121
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/1 year
Shipping	Gel Packs