

## Reduced Glutathione Assay Kit (Spectrophotometry)

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder -20°C for 3 years  
In solvent -80°C for 2 years

Actual storage temperature shall be subject to the COA.

### Biological Description

Description

Reduced Glutathione (GSH) is the predominant intracellular antioxidant thiol, playing critical roles in antioxidation, protein thiol protection, and amino acid transmembrane transport. The ratio of reduced to oxidized glutathione (GSH/GSSG) serves as a key dynamic indicator of cellular redox status. Therefore, quantifying intracellular GSH and GSSG levels, as well as the GSH/GSSG ratio, provides a reliable assessment of the cellular redox state. DTNB reacts with GSH to form a colored complex, exhibiting a characteristic absorption peak at 412nm; the absorbance is directly proportional to the GSH concentration.

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