

Product Specification Sheet

Recombinant Bovine GST A1-1
Product Number: GS85
Aliquot: 100 µg
Lot Number: gs85.100723
Storage: -70°C

SPECIFIC ACTIVITY:	4.35 Units/mg using spectrophotometric determination of 1-chloro-2,4-dinitrobenzene (CDNB) conjugation with reduced glutathione (1 mM) in 100 mM NaPO ₄ (pH 6.5) at room temperature.
CONCENTRATION:	1.42 mg/mL total protein using the Bradford protein assay with BSA as a standard.
STORAGE BUFFER:	50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 1 mM EDTA and 50% glycerol.
STORAGE:	-70°C; AVOID MULTIPLE FREEZE-THAW CYCLES.
PURITY:	≥ 95% as assessed by inspection on a Coomassie® Blue-stained SDS-PAGE gel.
MOLECULAR WEIGHT:	23 kDa
SOURCE:	Bovine recombinant protein expressed in <i>E. coli</i> .
REFERENCES:	Raffalli-Mathieu, F., <i>et. al</i> ; (2007) Biochimica et Biophysica Acta 1770 :130-136

Note: This purified product exhibits high enzymatic activity for CDNB, the synthetic substrate that is most commonly used for GST analyses. However, as is widely known for GST activity analysis using CDNB as a substrate, low concentrations (high dilutions) of the enzyme result in lower activity values. In contrast, initial velocities are much higher for more concentrated levels of enzyme but the rate decreases rapidly. Therefore, activity toward CDNB and these considerations provide guidance when assaying this product under low concentrations or when using substrates other than CDNB.