

GST-Δ/GSTD2, Active Recombinant (*Bombyx mori* (Silk moth))

CATALOG #:	7840-100	100 µg
ALTERNATE NAMES:	Glutathione S-Transferase Delta, GSTd2	
SOURCE:	<i>E. coli</i>	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	26.4 kDa (236 aa, 1-216 aa + His Tag)	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 µg of protein (determined by LAL method).	
FORM:	Liquid	
FORMULATION:	2.0 mg/ml solution in 50% glycerol without additives.	

SPECIFIC ACTIVITY: ≥ 20 U/mg as determined with BioVision's GST colorimetric activity assay kit, Cat # K263-100. One unit of the recombinant GST-Δ is defined as the amount of enzyme that conjugates 1.0 µmole of 1-chloro-2, 4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.

STORAGE CONDITIONS: Stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freeze and thaw cycles.

DESCRIPTION: Glutathione S-transferase Δ is an enzyme in *Bombyx mori* (Silk moth) encoded by the GSTd2 gene. GSTs are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into nine classes: alpha, delta, kappa, mu, omega, pi, theta, zeta and microsomal. GSTs play a role in susceptibility to cancer, and other diseases.

AMINO ACID SEQUENCE: MGSSHHHHHSSGLVPRGSH MTIDLYYVPG SAPCRAVLLT AKALNLNLNKLVLDLHHGEQLKPEYLKLNQHTVPTLVDDGLSIWESRAIITYLVNKYAKGSSL YPEDPKARALVDQRLYFDIGTLYQRFSDYFYPQVFAGAPADKAKNEKVQEALQLLDFLEGQ KYVAGPNLTVADLSLIASVSSLEASDIDFKKYANVKRWYETVKSTAPGYQEANEKGLEAFKGL V NSMLKK



SDS-PAGE (15%) of GST-Δ protein
Lane 1: Marker.
Lane 2: 5 µg of GST-Δ protein

SDS-PAGE (15%) of GST-Δ protein: 5 µg of GST-Δ protein loaded under reducing conditions and stained with Coomassie Blue. GST-Δ protein has a predicted MW of ~ 26.4 kDa.

RELATED PRODUCTS:

- Human recombinant GSTA1 (Cat. No. 6346-100)
- Human recombinant GSTP1 (Cat. No. 6347-100)
- Mouse recombinant GSTMu 1 (Cat. No. 6348-100)
- Mouse recombinant GSTM1 (Cat. No. 6349-100)
- Human recombinant GSTM2 (Cat. No. 6350-100)
- Schistosoma japonicum recombinant GST (Cat. No. 6351-100)
- Human recombinant GSR (Cat. No. 6352-100)
- GST Colorimetric Activity Assay Kit (Cat. No. K263-100)
- GST Fluorometric Activity Assay Kit (Cat. No. K260-100)
- GST Inhibitor-1 (Cibacron Blue 3G-A, Sodium Salt) (Cat. No. 1555R-1000)
- GST Inhibitor-2 (Ethacrynic acid) (Cat. No. 1556-1000)

FOR RESEARCH USE ONLY! Not to be used in humans.