

Product datasheet for AR03011PU-L

OriGene Technologies, Inc.9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

GST-Tag (1-224) Schistosoma Protein

Product data:

Product Type: Recombinant Proteins

Description: GST-Tag (1-224) schistosoma recombinant protein, 0.5 mg

Species: Schistosoma

Expression Host: E. coli

Expression cDNA Clone MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID

or AA Sequence: GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML

KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID

KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPR

Predicted MW: 26 kDa

Concentration: lot specific

Purity: >95% by SDS PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate Buffered Saline pH 7.4

Biological: 0.5-2.5 units/mg (please enquire for specific batch value). A unit is defined as the

amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with

reduced glutathione per minute at pH 6.5 at 25°C.

Activity Assay

1. Prepare a 1 ml reaction mix into a suitable container: The final concentrations are 97 mM potassium phosphate, 0.97 mM EDTA, 2.5 mM glutathione, reduced, 1.0 mM 1-chloro-2,4-

dinitrobenzene (CDNB), 3.2% (v/v) ethanol.

2. Equilibrate to 25°C and monitor at A340nm until the value is constant using a

spectrophotometer.

3. Add 50 ul of GST protein with various concentrations (1ug, 2ug, 5ug) in 950 ul reaction

buffer.

4. Mix by inversion and record the increase at A340nm for 5 minutes.

Endotoxin: < 1.0 EU per 1 ug of protein (determined by LAL method)

Preparation: Liquid purified protein

Protein Description: Recombinant GST was expressed in E.coli and purified by conventional chromatography

techniques.





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Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Summary: Glutathione S-transferase (GST) represents a major group of detoxification enzymes. This

enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-

substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the

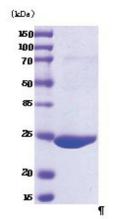
transformation of a wide range of compounds, including carcinogens, therapeutic drugs, and products of oxidative stress. As well as its enzymatic activities, GST may also bind toxins and

function as transport protein. Because of this, an early term for GSTs was ligandin.

Glutathione S-transferase was originally separated from Schistosoma japonicum but currently

isolated from recombinant E.coli source.

Product images:



15%SDS-PAGE (3ug)