

Recombinant mouse Glutathione S-transferase A1/GSTA1 protein

Catalog Number: ATGP3086

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-223aa

UniProt No.

P13745

NCBI Accession No.

NP_032207

Alternative Names

Glutathione S-transferase, A1, Gst2-1, OTTMUSG00000031890

PRODUCT SPECIFICATION

Molecular Weight

28 kDa (246aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 4,000pmol/min/ug, and is defined as the amount of enzyme that conjugate 1.0pmole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Gsta1 also known as Glutathione S-transferase, A1, belongs to a glutathione S-transferase alpha class and is the most abundantly expressed in liver. This protein functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation

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with glutathione. Recombinant mouse Gsta1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

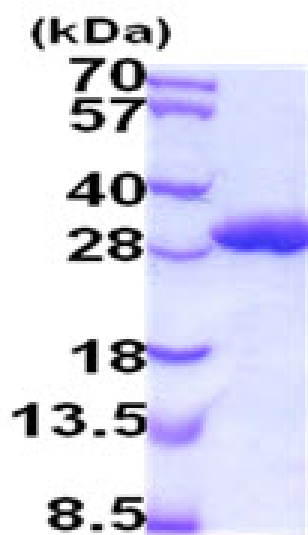
MGSSHHHHHH SGLVPRGSH MGSMAGKPVL HYFNARGRME CIRWLLAAAG VEFEEKFIQS PEDLEKLLKD GNLMFDQVPM
VEIDGMKLAQ TRAILNYIAT KYDLYGKDMK ERALIDMYSE GILDLTEMIG QLVLCPPDQR EAKTALAKDR TKNRYLPAFE
KVLKSHGQDY LVGNRLTRVD IHLLEVLLYV EEFDASLLTP FPLLKAFKSR ISSLPNVKKF LQPGSQRKPP MDAKQIQEAR
KAFKIQ

General References

Grahn, E., et al. (2006) Acta Cryst. 62 (2): 197-207.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)