

Recombinant mouse Glutathione S-Transferase Pi 1/GSTP1 protein

Catalog Number: ATGP3146

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-210aa

UniProt No.

P19157

NCBI Accession No.

NP_038569

Alternative Names

Glutathione S-transferase P 1

PRODUCT SPECIFICATION

Molecular Weight

26 kDa (233aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 40unit/mg, and is defined as the amount of enzyme that conjugate 1.0 umole 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

Gstp1 also known as Glutathione S-transferase P 1. Gstp1 is a superfamily of ubiquitously expressed cytosolic, mitochondrial and membrane-associated enzymes involved in a range of detoxification processes. Also Increased Gstp1 levels were consistently associated with reduced Cdk5 activity. Gstp1 directly inhibits Cdk5 by

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dislodging p25/p35, and indirectly by eliminating oxidative stress. Recombinant mouse Gstp1, fused to His-tag at N-terminus was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMPPYTIV YFPVRGRCEA MRMLLADQGQ SWKEEVVTID TWMQGLLKPT CLYGQLPKFE
DGDLTLYQSN AILRHLGRSL GLYGKNQREA AQMDMVNDGV EDLRGKYVTL IYTNYENGKN DYVKALPGHL KPFETLLSQN
QGGKAFIVGD QISFADYNLL DLLLIHQVLA PGCLDNFPLL SAYVARLSAR PKIKAFLLSSP EHVNRPINGN GKQ

General References

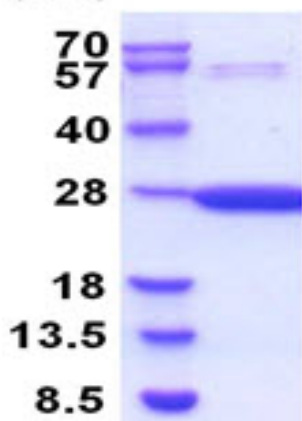
Sailer V., et al. (2015) Histopathology. doi: 10.1111/his.12671.

S Kai-Hui., et al. (2011) Journal of Neurochemistry vol. 118(5): 902-914.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)