

Recombinant human Glutathione S-transferase theta 1/GSTT1 protein

Catalog Number: ATGP0346

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-240aa

UniProt No.

P30711

NCBI Accession No.

AAH07065.1

Alternative Names

Glutathione S-transferase theta 1, GSTT1, GST class-theta-1, Glutathione transferase T1-1, Glutathione S-transferase theta 1 EC 2.5.1.18, Glutathione S transferase 5, Glutathione S transferase theta 1, GST class theta 1, Glutathione transferase T1 1, GST 5 5, GST CL1

PRODUCT SPECIFICATION

Molecular Weight

31.5 kDa (277aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

Glutathione S-transferase theta 1 (GSTT1) is one of the GSTs' four main classes: alpha, mu, pi, theta. This enzyme is involved in activation and detoxification reactions and catalyzes the conjugation of industrial chemicals, e. g. epoxybutane, ethylene oxides, halomethane with glutathione. The absence of the GSTT1 enzyme, might determine the individual risk for development of acquired aplastic anemia and acute myeloid

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leukemia. Recombinant human GSTT1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH>MGL ELYLDLLSQP CRAVYIFAKK NDIPFELRIV
DLIKGQHLSL ACAQVNPLKK VPALKDGDFT LTESVAILLY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH TTLRRSCLRA
LWHKVMFPVF LGEPVSPQTL AATLAELDVT LQLEDEKFLQ NKAFLTGPHI SLADLVAITE LMHPVGAGCQ VFEGRPKLAT
WRQRVEAAVG EDLFQEAHEV ILKAKDFPPA DPTIKQKLMP WVLAMIR

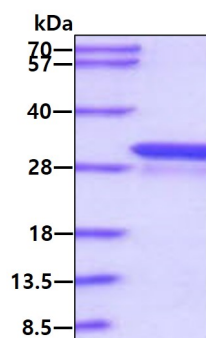
General References

Faramawy MM., et al. (2009). J Crit Care. 24(3):e7-10.

Delpisheh A., et al. (2009). Eur J Obstet Gynecol Reprod Biol. 143(1):38-42.

DATA

SDS-PAGE



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