

Recombinant Human Glutathione S-transferase Theta 1, His-tagged

Cat. No. GSTT1-180H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GSTT1, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =31.5 kDa (277aa).
Species	Human
Source	E.coli
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 leukemia.
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGL ELYLDLLSQP CRAVYIFAKK NDIPFELRIV DLIKGQHLSD ACAQVNPLKK VPALKDGDFT LTESVAILLY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH TTLRRSCLRA LWHKVMFPVF LGEPVSPQTL AATLAELDVT LQLLDKFLQ NKAFLTGPHI SLADLVAITE LMHPVGAGCQ VFEGRPKLAT WRQRVEAAVG EDLFQEAHEV ILKAKDFPPA DPTIKQKLMP WVLAMIR.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	GSTT1 glutathione S-transferase theta 1 [Homo sapiens]
Synonyms	GSTT1; glutathione S-transferase theta 1; EC 2.5.1.18; Glutathione S-transferase theta-1; GST class-theta-1; Glutathione transferase T1-1
Gene ID	2952
mRNA Refseq	NM_000853
Protein Refseq	NP_000844
MIM	600436
UniProt ID	P30711
Chromosome Location	22q11.23
Pathway	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450
Function	glutathione transferase activity; transferase activity