

# 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 *E.coli* 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 LQILLEDKFLQ 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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<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Storage</b>	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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">GSTT1 glutathione S-transferase theta 1 [ Homo sapiens ]</a>
<b>Synonyms</b>	GSTT1; glutathione S-transferase theta 1; EC 2.5.1.18; Glutathione S-transferase theta-1; GST class-theta-1; Glutathione transferase T1-1
<b>Gene ID</b>	<a href="#">2952</a>
<b>mRNA Refseq</b>	<a href="#">NM_000853</a>
<b>Protein Refseq</b>	<a href="#">NP_000844</a>
<b>MIM</b>	<a href="#">600436</a>
<b>UniProt ID</b>	<a href="#">P30711</a>
<b>Chromosome Location</b>	22q11.23
<b>Pathway</b>	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450
<b>Function</b>	glutathione transferase activity; transferase activity

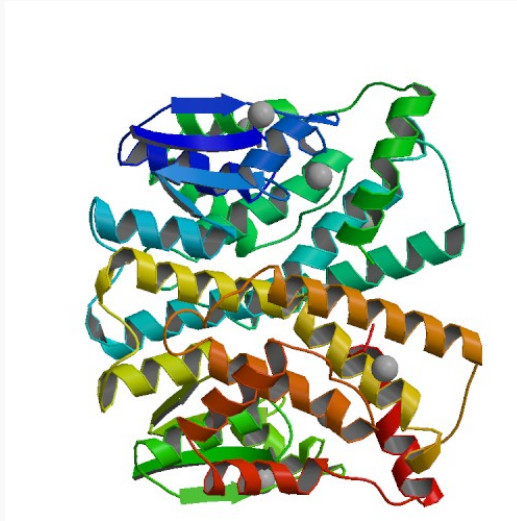
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on 2c3n.



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