

## Product datasheet for PH300040

### Glutathione S Transferase theta 2 (GSTT2) (NM\_000854) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GSTT2 MS Standard C13 and N15-labeled recombinant protein (NP_000845)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200040
Predicted MW:	27.5 kDa
Protein Sequence:	>RC200040 protein sequence Red=Cloning site Green=Tags(s)  MGLELFLDLVSQPSRAVYIFAKKNGIPELRLTVDLVKGQHKSKEFLQINSLGKLPKLDGDFILTESSAI LIYLSCKYQTPDHWYPSDLQARARVHEYLGWHADCIRGTFGIPLWVQVLGPLIGVQVPEEKVERNRTAMD QALQWLEDKFLGDRPFLAGQQVTLADLMALEELMQPVALGYELFEGRPRLAAWRGRVEAFLGAELCQEAH SIILSILEQAACKTLPTPSPEAYQAMLLRIARIP  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_000845</a></u>
RefSeq Size:	1136
RefSeq ORF:	732
Locus ID:	2953
UniProt ID:	<u><a href="#">P0CG29</a></u>
Cytogenetics:	22q11.23



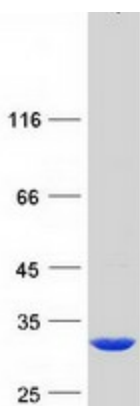
[View online »](#)

**Summary:**

The protein encoded by this gene, glutathione S-transferase (GST) theta 2 (GSTT2), is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1, GSTT2, and GSTT2B. GSTT2 and GSTT2B are nearly identical to each other, and share 55% amino acid identity with GSTT1. All three genes may play a role in human carcinogenesis. The GSTT2 gene is a pseudogene in some populations. [provided by RefSeq, Sep 2015]

**Protein Pathways:**

Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

**Product images:**

Coomassie blue staining of purified GSTT2 protein (Cat# [TP300040]). The protein was produced from HEK293T cells transfected with GSTT2 cDNA clone (Cat# [RC200040]) using MegaTran 2.0 (Cat# [TT210002]).