

## Product datasheet for PH303309

### TPMT (NM\_000367) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TPMT MS Standard C13 and N15-labeled recombinant protein (NP_000358)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203309
Predicted MW:	28.2 kDa
Protein Sequence:	>RC203309 protein sequence Red=Cloning site Green=Tags(s)  MDGTRTSLDIEEYSDTEVQKNQVLTLEEWQDKWVNGKTAHQEQGHQLLKKHLDTFLKKGKSLRVFFPLC GKAVEMKWFADRGHSVVGVEISELGIQEFFTEQNLSEEPITEIPGTKVFKSSSGNISLYCCSIFDLPR TNIKGFDMIWDRGALVAINPGDRKCYADTMFSLLGKFKQYLLCVLSYDPTKHPGPPFYVPHAEIERLFGK ICNIRCLEKVDAFEERHKSAGIDCLFEKLYLLTEK  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:	<a href="#">NP_000358</a>
RefSeq Size:	3281
RefSeq ORF:	735
Synonyms:	TPMTD
Locus ID:	7172
UniProt ID:	<a href="#">P51580</a> , <a href="#">A0A024QZW0</a>



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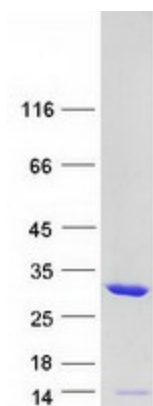
**Cytogenetics:** 6p22.3

**Summary:** This gene encodes the enzyme that metabolizes thiopurine drugs via S-adenosyl-L-methionine as the S-methyl donor and S-adenosyl-L-homocysteine as a byproduct. Thiopurine drugs such as 6-mercaptopurine are used as chemotherapeutic agents. Genetic polymorphisms that affect this enzymatic activity are correlated with variations in sensitivity and toxicity to such drugs within individuals, causing thiopurine S-methyltransferase deficiency. Related pseudogenes have been identified on chromosomes 3, 18 and X. [provided by RefSeq, Aug 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes

**Product images:**



Coomassie blue staining of purified TPMT protein (Cat# [TP303309]). The protein was produced from HEK293T cells transfected with TPMT cDNA clone (Cat# [RC203309]) using MegaTran 2.0 (Cat# [TT210002]).