

## Product datasheet for **AR09087PU-N**

### Thiopurine methyltransferase (TPMT) (1-245) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Thiopurine methyltransferase (TPMT) (1-245) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLKGGK SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNLSYSEE PITEIPGTKV FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLLGKKFQY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSUW GIDCLFEKLY LLTEK
<b>Predicted MW:</b>	28 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	≥95 pure by SDS-PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl, 8.0, 0.2 mM PMSF, 2 mM EDTA
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant Human TPMT was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000358</a>
<b>Locus ID:</b>	7172
<b>UniProt ID:</b>	<a href="#">P51580</a> , <a href="#">A0A024QZW0</a>
<b>Cytogenetics:</b>	6p22.3
<b>Synonyms:</b>	TPMTD



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**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:**