

Product datasheet for **AR09087PU-L**

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

Product data:

Product Type:	Recombinant Proteins
Description:	Thiopurine methyltransferase (TPMT) (1-245) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MDGTRTSLDI EEYSDETVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLKGG SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNLSYSEE PITEIPGTKV FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLLGKKFQY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSXW GIDCLFEKLY LLTEK
Predicted MW:	28 kDa
Concentration:	lot specific
Purity:	≥95 pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl, 8.0, 0.2 mM PMSF, 2 mM EDTA
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human TPMT was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000358
Locus ID:	7172
UniProt ID:	P51580 , A0A024QZW0
Cytogenetics:	6p22.3
Synonyms:	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: