

AR09087PU-N

Recombinant human TPMT (Thiopurine S-methyltransferase) (aa 1-245)

Alternate names:	Thiopurine S-methyltransferase
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	TPMT, thiopurine S-methyltransferase, is a cytosolic 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 and azathioprine are used as chemotherapeutic agents. TPMT activity exhibits autosomal codominant genetic polymorphism, and patients inheriting TPMT-deficiency are at high risk of potentially fatal hematopoietic toxicity.
Uniprot ID:	P51580
NCBI:	NP_000358.1
GeneID:	7172
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: ≥95 pure by SDS-PAGE Buffer System: 20 mM Tris-HCl, 8.0, 0.2 mM PMSF, 2 mM EDTA
Description:	Recombinant Human TPMT was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MDGTRTSLDI EEYS DTEVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLK GK SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNLSYSEE PITEIPGTVK FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLGKKFQY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSW GIDCLFEKLY LLTEK Molecular weight: 28 kDa (245 aa), confirmed by MALDI-TOF
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. Shelf life: one year from despatch.
General Readings:	Odani S, et al.(2001) J Biochem. 129(2):213-9.

Pictures:

Recombinant human TPMT: 15% SDS-PAGE (3 µg)

