

# Product information

## TPMT, 1-245 aa

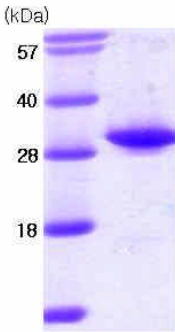
Human, Recombinant, *E.coli*

Cat. No. IBTPM0701

**Full name:** Thiopurine S-methyltransferase

**NCBI Accession No.:** NP\_000358

**Description:** 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. Recombinant human TPMT was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 mM PMSF 2 mM EDTA</p> <p><b>Molecular Weight:</b> 28 kDa (245 aa), confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ DKWVNGKTAF HSEQGHQLLK KHLDTFLK GK SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE          ISELGIQEFF TEQNLSYSEE PITEIPGTKV FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLLGKKFQY          LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSW GIDCLFEKLY LLTEK</p>	

### General references:

Tai HL., *et al.* (1997) *Proc Natl Acad Sci USA.* 94:6444-9.

Odani S., *et al.* (2001) *J Biochem.* 129(2):213-9.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.