

Recombinant Full Length Human Thiopurine S-methyltransferase/TPMT

Cat. No. TPMT-76H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TPMT was expressed in E.coli and purified by using conventional chromatography techniques(245 aa, 28 kDa).
Species	Human
Source	E.coli
ProteinLength	1-245 a.a.
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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 mM PMSF, 2 mM EDTA.
Molecular Weight	28 kDa (245 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Amino acid Sequence	MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLK GK SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNLSYSEE PITEIPGTKV FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLLGKKFQY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSW GIDCLFEKLY LLTEK
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.

GENE INFORMATION

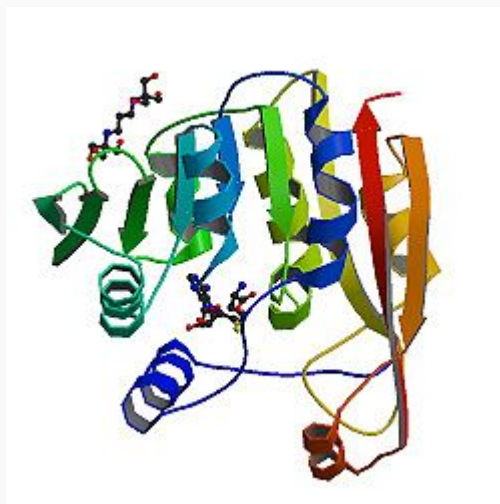
Gene Name	TPMT thiopurine S-methyltransferase [Homo sapiens]
Synonyms	TPMT; Thiopurine S-methyltransferase; EC 2.1.1.67; Thiopurine methyltransferase; OTTHUMP00000016076; S-adenosyl-L-methionine:thiopurine S-methyltransferase.
Gene ID	7172
mRNA Refseq	NM_000367
Protein Refseq	NP_000358
MIM	187680
UniProt ID	P51580
Chromosome Location	6p22.3
Function	methyltransferase activity; thiopurine S-methyltransferase activity; transferase activity.

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PDBrendering based
on 2bzg. Available
structures: 2bzg, 2h11.



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