



## Product Datasheet

<b>Product Name</b>	Thiopurine S-methyltransferase Human Recombinant
<b>Cata No</b>	CB500861
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	TPMT, Thiopurine S-methyltransferase, EC 2.1.1.67, Thiopurine methyltransferase.

### 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. TPMT activity exhibits autosomal codominant genetic polymorphism, and patients inheriting TPMT-deficiency are at high risk of potentially fatal hematopoietic toxicity.

TPMT Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 245 amino acids (1-245) and having a molecular mass of 28 kDa.

Thiopurine S-methyltransferase is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Purity

Greater than 95.0% as determined by:  
(a)Analysis by RP-HPLC.

(b)Analysis by SDS-PAGE.

### Formulation

1 mg/ml solution containing 20mM Tris 8.0, 0.2mM PMSF and 2mM EDTA.

### Stability

Thiopurine S-methyltransferase Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.

**Please prevent freeze thaw cycles.**

### Sequence

MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ  
DKWVNGKTAF HQEQGHQLLK  
KHLDTFLKGKSGLRVFFPLC GKAVEMKWFA  
DRGHSVVGVE ISELGIQEFF TEQNLSYSEE  
PITEIPGTKVFKSSSGNISL YCCSIFDLPR  
TNIGKFDMIW DRGALVAINP GDRKCYATDM  
FLLGKKFQY LLCVLSYDPT KHPGPPFYVP  
HAEIERLFGK ICNIRRLEKV DAFEERHKSW  
GIDCLFEKLYLLTEK.