

Recombinant Human TPMT protein, His-tagged

Cat. No. TPMT-8091H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPMT aa. (Leu26~His227) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu26~His227
Description	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.
Form	Freeze-dried powder
Molecular Mass	27kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.7.
Applications	Positive Control; Immunogen; SDS-PAGE; WB
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TPMT thiopurine S-methyltransferase [Homo sapiens (human)]
Official Symbol	TPMT
Synonyms	TPMTD; S-adenosyl-L-methionine:thiopurine S-methyltransferase; thiopurine S-methyltransferase

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Gene ID	7172
mRNA Refseq	NM_000367.4
Protein Refseq	NP_000358.1
UniProt ID	P51580
SDS-PAGE	