

Recombinant Human TPMT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPMT-5121H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPMT MS Standard C13 and N15-labeled recombinant protein (NP_000358) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	28.2 kDa
AA Sequence	MDGTRTSLDIEEYSDETVQKNQVLTLEEWQDKWVNGKTAFHQEQGHQLLKKHLD FLKGKSGLRVFFPLCGKAVEMKWFADRGHSVVGVEISELGIQEFFTEQNLSYSEEP TEIPGTKVFKSSSGNISLYCCSIFDLPRTNIGKFDMIWDRGALVAINPGDRKCYADTM FSLLGKKFQYLLCVLSYDPTKHPGPPFYVPHAEIERLFGKICNIRCLEKVDAFEERHK SWGIDCLFEKLYLLTEKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

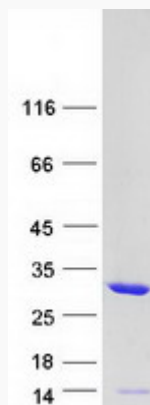
GENE INFORMATION

Gene Name	TPMT thiopurine S-methyltransferase [Homo sapiens (human)]
Official Symbol	TPMT
Synonyms	TPMT; thiopurine S-methyltransferase; S-adenosyl-L-methionine:thiopurine S-methyltransferase;
Gene ID	7172
mRNA Refseq	NM_000367
Protein Refseq	NP_000358
MIM	187680
UniProt ID	P51580

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SDS-PAGE

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