

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

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

SPECIFICATION

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|-------------------------|---|
| 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 | <p>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.</p> |
| Molecular Mass | 28.2 kDa |
| AA Sequence | <p>MDGTRTSLDIEEYSDTEVQKNQVLTLEEWQDKWVNGKTAHFHQEQGHQLLKKHLDT FLKGKSGLRVFFPLCGKAVEMKWFADRGHSVVGVEISELGIQEFFTEQNLSEPI TEIPGTKVFKSSSGNISLYCCSIFDLPRTNIGKFDMIWDRGALVAINPGDRKCYADTM FLLGKKFQYLLCVLSYDPTKHPGPPFYVPHAEIERLFGKICNIRCLEKVDAFEERHK SWGIDCLFEKLYLLTEKTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |

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|-----------------------|--|
| 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

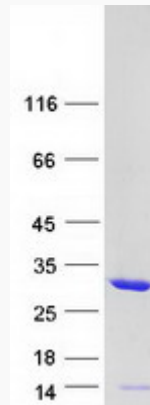
| | |
|------------------------|---|
| Gene Name | TPMT thiopurine S-methyltransferase [Homo sapiens (human)] |
| Official Symbol | TPMT |
| Synonyms | TPMT; thiopurine S-methyltransferase; S-adenosyl-L-methionine:thiopurine S-methyltransferase; |
| Gene ID | 7172 |
| mRNA Refseq | NM_000367 |
| Protein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

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SDS-PAGE



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