

TPMT recombinant protein

TPMT, 1-245aa, Human, E Coli

CATALOG # AAA48470	HOST E Coli	APPLICATIONS SDS-Page
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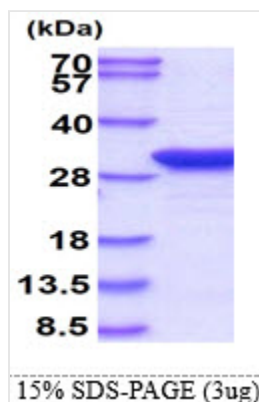
PRODUCT SYNONYMS

TPMT; 1-245aa; Human; E Coli; Thiopurine S-methyltransferase; Thiopurine S-methyltransferase HGNC:12014; S adenosyl L methionine thiopurine S methyltransferase; Thiopurine methyltransferase; Thiopurine S methyltransferase.; TPMT recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	In 20mM Tris 8.0, 0.2mM PMSF, 2mM EDTA
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLK GK SGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNL SYSEE PITEIPGTKV FKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FSLLGKKFYQ LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLKGV DAFEERHKSW GIDCLFEKLY LLTEK
Sequence Length	245
Applicable Applications for TPMT recombinant protein	SDS-PAGE
Antigen Species	Human
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TPMT recombinant protein	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. Recombinant human TPMT was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for TPMT recombinant protein	Enzymes & Proteases
References	Tai HL., et al. (1997) Proc Natl Acad Sci uSA. 94:6444-9.; Odani S., et al. (2001) J Biochem. 129 (2):213-9.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	13529134
NCBI GeneID	7172
Molecular Weight	28 kDa (245 aa), confirmed by MALDI-TOF.
NCBI Official Full Name	Thiopurine S-methyltransferase
NCBI Official Synonym Full Names	thiopurine S-methyltransferase
NCBI Official Symbol	TPMT
NCBI Official Synonym Symbols	TPMTD
NCBI Protein Information	thiopurine S-methyltransferase
UniProt Protein Name	Thiopurine S-methyltransferase
UniProt Gene Name	TPMT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.