

TPMT Human

Description: 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.

Catalog #: PKPS-262

For research use only.

Synonyms: TPMT, Thiopurine S-methyltransferase, EC 2.1.1.67, Thiopurine methyltransferase.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MDGTRTSLDI EEYSDTEVQK NQVLTLEEWQ DKWVNGKTAF
HQEQGHQLLK KHLDTFLKGKSGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF
TEQNLSYSEE PITEIPGTKVFKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP
GDRKCYADTM FSLGKKFY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLKV
DAFEERHKSW GIDC

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

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

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

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Introduction:

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.

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