
Product Data Sheet

Product Name: TPMT Human
 Cat. No.: GP22644
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | TPMT; Thiopurine S-methyltransferase; EC 2.1.1.67; Thiopurine methyltransferase. | | |
| Amino Acid Sequence | MDGTRTSLDI EEYS DTEVQK NQVLTLEEWQ DKWVNGKTAF HQEQGHQLLK KHLDTFLKKGKSGLRVFFPLC GKAVEMKWFA DRGHSVVGVE ISELGIQEFF TEQNLSYSEE PITEIPGTVKFKSSSGNISL YCCSIFDLPR TNIGKFDMIW DRGALVAINP GDRKCYADTM FLLGKKFQY LLCVLSYDPT KHPGPPFYVP HAEIERLFGK ICNIRRLEKV DAFEERHKSW GIDCLFEKLYLLTEK. | | |
| Formulation | 1 mg/ml solution containing 20mM Tris 8.0, 0.2mM PMSF and 2mM EDTA. | | |

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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA