

TPMT (Thiopurine methyltransferase) Activity

Order Name: **TPMT ACT**

Test Number: 3601957

Revision Date: 03/05/2024

TEST NAME	METHODOLOGY	LOINC CODE
TPMT (Thiopurine methyltransferase) Activity	Enzymatic/Quantitative Liquid Chromatography-Tandem Mass Spectrometry	53819-9

SPECIMEN REQUIREMENTS				
Specimen	Specimen Volume (ml)	Specimen Type	Specimen Container	Transport Environment
Preferred	8 mL adult; 5 mL pediatric (5 mL)	Whole Blood	Sodium Heparin (Green Top / No-Gel)	Refrigerated
Alternate 1	8 mL adult; 5 mL pediatric (5 mL)	Whole Blood	EDTA (Lavender Top)	Refrigerated
Instructions	<p>Specimen Type: Green-top (sodium heparin) tube or lavender-top (EDTA) tube Specimen Storage: Refrigerate Specimen Collection: Not Available Special Instructions: For New York state patients: Test orders for TPMT Enzyme Act Activity MUST include an attestation that the provider has the patient's informed consent for genetic testing. See sample physician office consent form (Informed Consent for TPMT Enzyme Activity) Specimen Stability: Ambient: Not Available, Refrigerated : 14 days, Frozen: Unstable</p>			

GENERAL INFORMATION	
Expected TAT	7-12 days
Clinical Use	Help prevent hepatotoxicity from thiopurine therapy. This test helps identify individuals at increased risk of hepatotoxicity from thiopurine dose escalation. Patients with a TMPT activity of 4-12 nmol 6-MMP/hr/mL RBC (heterozygote/low metabolizer) are at increased risk and may require a lower dose of thiopurine drug.
Performing Labcorp Test Code	510750
CPT Code(s)	84433
Lab Section	Reference Lab