

PROMETHEUS® TPMT Enzyme Cat. #3320

PROMETHEUS® TPMT Enzyme testing provides a quantitative analysis of a patient's thiopurine methyltransferase (TPMT) enzyme activity level. Because each patient metabolizes thiopurines differently, the efficacy and toxicity of thiopurines can vary widely from patient to patient. Knowledge of the TPMT enzyme phenotype may reduce time of response, allow physicians to individualize dosing, identify patients in whom thiopurine therapy should be avoided and help reduce the risk of leukopenia.

Product Description

- A quantitative analysis (phenotype) of TPMT Enzyme activity levels.
- PROMETHEUS TPMT Enzyme is only offered at Prometheus.
- Patent protected.
- **Specimen Requirements** - Whole blood, 5.0 mL; EDTA / Lavender Top Tube.
- **Shipping and Handling** - Refrigerate; Ship with cold pack (DO NOT FREEZE).
- **Storage Conditions/Stability** - 8 days refrigerated; 24 hours ambient.
- **Turn Around Time** - 3 business days from date of receipt.
- **Reference Range** - Normal TPMT Activity: >21.0 EU/mL; Intermediate TPMT Activity: 6.0-21.0 EU/mL; Low TPMT Activity: <6.0 EU/mL.

Facilities Description

- Prometheus is located in San Diego, CA. **Tax ID#** 33-0685754 **NPI#** 1073642641.
- Licensed in several states including New York and California.
- Prometheus Laboratories Inc. is CLIA certified and accredited by the College of American Pathologists. This test was developed and its performance characteristics determined by Prometheus Laboratories Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Codes (as applied by Prometheus)

- **82657**, TPMT (thiopurine S-methyltransferase) enzyme activity in peripheral RBC
- **82491**, Quantitative HPLC (High Pressure Liquid Chromatography) for 6-methyl-thioguanine

Literature References

- Seidman EG, Clinical use and practical application of TPMT enzyme and 6-mercaptopurine metabolite monitoring in IBD. *Gastroenterol Disord.* 2003;3(suppl 1):S30-S38.
- Stolk JN, Boerbooms AM, de Abreu RA, et al. Reduced thiopurine methyltransferase activity and development of side effects of azathioprine treatment in patients with rheumatoid arthritis. *Arthritis Rheum.* 1998;41(10):1858-1866.