Azathioprine, mercaptopurine (MP), and thioguanine are drugs that the enzyme thiopurine methyltransferase (TPMT) inactivates via methylation. This figure does not include all metabolic steps; it includes only those relevant to this Guide. The figure was developed by Quest Diagnostics based in part on reference 1.

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6-MP indicates 6-mercaptopurine; 6-MMP, 6-methylmercaptopurine; 6-MMPN, 6-methylmercaptopurine nucleotide; MTG, methylthioguanine; TGN, thioguanine nucleotide; TIMP, thioinosine monophosphate; TPMT, thiopurine methyltransferase.