Table 1. Fluxes (Q) of infused amino acids in women having MTHFR 677 C/C or T/T genotype during primed, constant infusions of $[^{13}\text{C}_5]$methionine, $[^{3-13}\text{C}]$serine, and $[^2\text{H}_3]$leucine at baseline and after seven weeks of dietary folate restriction (115 µg dietary folate equivalents/d).

<table>
<thead>
<tr>
<th>Genotype</th>
<th>Q$_{\text{Leu}}$ (µmol/(kg·h))</th>
<th>Q$_{\text{Ser}}$ (µmol/(kg·h))</th>
<th>Q$<em>{\text{Ser}}$/Q$</em>{\text{Leu}}$</th>
<th>Q$_{\text{M}}$ (µmol/(kg·h))</th>
<th>Q$<em>{\text{M}}$/Q$</em>{\text{Leu}}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/C baseline</td>
<td>103 ± 5.5</td>
<td>369 ± 18</td>
<td>3.67 ± 0.28</td>
<td>29.0 ± 1.3</td>
<td>0.28 ± 0.01</td>
</tr>
<tr>
<td>C/C restricted</td>
<td>99.8 ± 5.5</td>
<td>344 ± 22</td>
<td>3.47 ± 0.18</td>
<td>28.2 ± 1.2</td>
<td>0.29 ± 0.01</td>
</tr>
<tr>
<td>Change</td>
<td>-3.6 ± 7.2</td>
<td>-25 ± 18</td>
<td>-0.21 ± 0.21</td>
<td>-0.7 ± 1.2</td>
<td>0.00 ± 0.01</td>
</tr>
<tr>
<td>T/T baseline</td>
<td>96.4 ± 9.3</td>
<td>316 ± 28</td>
<td>3.33 ± 0.18</td>
<td>28.2 ± 1.7</td>
<td>0.30 ± 0.01</td>
</tr>
<tr>
<td>T/T restricted</td>
<td>87.2 ± 5.1</td>
<td>292 ± 18</td>
<td>3.37 ± 0.06</td>
<td>28.9 ± 1.6</td>
<td>0.34 ± 0.02</td>
</tr>
<tr>
<td>Change</td>
<td>-9.1 ± 9.0</td>
<td>-24 ± 17</td>
<td>0.04 ± 0.20</td>
<td>0.7 ± 1.7</td>
<td>0.04 ± 0.02</td>
</tr>
</tbody>
</table>

$^1$Data are means ± SEM; n=9/group. There were no differences between or changes within genotypes, P>0.05.
Supplemental Figure 1.

Plasma enrichment curves for infused (A) $[^2]H_3$]leucine, (B) [3-$^{13}$C]serine, and (C) [$^{13}$C$_5$]methionine tracers for MTHFR 677 C/C and T/T genotypes at baseline and after seven weeks of dietary folate restriction (~115 µg dietary folate equivalents/d). Data are means ± SEM (n=9/group).
Supplemental Figure 2.

Plasma enrichment curves for (A) $[^{13}\text{C}_1]\text{methionine}$ derived from the $[^{3}\text{C}]	ext{serine}$ tracer, (B) $[^{13}\text{C}_4]\text{homocysteine}$ and (C) $[^{13}\text{C}_4]\text{methionine}$ derived from the $[^{13}\text{C}_5]\text{methionine}$ tracer for MTHFR 677 C/C and T/T genotypes at baseline and after seven weeks of dietary folate restriction (~115 µg dietary folate equivalents/d). Data are means ± SEM (n=9/group).