

## Anti-Hypertensive Drug Felodipine Exerts Influence on the Metabolism of Serotonin

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**SUMMARY.** Felodipine, a long-acting 1,4-dihydropyridine calcium channel blocker (CCB)b, is clinically employed to treat mild to moderate essential hypertension. This study aims to determine the inhibition of felodipine on the activity of UDP-glucuronosyltransferase (UGT) 1A6 which is the main enzyme catalyzing the metabolic elimination of serotonin. 100  $\mu$ M of felodipine was used as the initial screening concentration to determine the inhibition of felodipine on the activity of UGT1A6, and approximately 100% activity of UGT1A6 was inhibited by 100  $\mu$ M of felodipine. Taken together, our recent study gave a rapid report demonstrating the inhibition of anti-hypertensive drug felodipine on the metabolism of serotonin.

**RESUMEN.** Felodipina, un bloqueador de canales de calcio (CCB)b de 1,4-dihidropiridina de acción prolongada, se emplea clínicamente para tratar la hipertensión esencial de leve a moderada. Este estudio tiene como objetivo determinar la inhibición de felodipina en la actividad de la UDP-glucuronosiltransferasa (UGT) 1A6, que es la enzima principal que cataliza la eliminación metabólica de la serotonina. Se usaron 100  $\mu$ M de felodipina como la concentración de exploración inicial para determinar la inhibición de felodipina en la actividad de UGT1A6 y aproximadamente el 100% de la actividad de UGT1A6 se inhibió por 100  $\mu$ M de felodipina. Tomado en conjunto, nuestro estudio reciente proporcionó un informe rápido que demuestra la inhibición del medicamento antihipertensivo felodipina sobre el metabolismo de la serotonina.

**KEY WORDS:** anti-hypertensive drug, felodipine, serotonin

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