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CYP2A6 wt Allele

National Cancer Institute

Source

National Cancer Institute. *CYP2A6 wt Allele*. NCI Thesaurus. Code C52355.

Human CYP2A6 wild-type allele is located in the vicinity of 19q13.2 and is approximately 7 kb in length. This allele, which encodes cytochrome P450 2A6 protein, plays a role in the hydroxylation of coumarin and oxidation of nicotine. It is also involved in the metabolism of other drugs and xenobiotics. Certain allelic variants of the CYP2A6 gene contribute to the poor metabolizer phenotype. The CYP2A6 wild-type allele is both a determinant of smoking behavior and a susceptibility factor for lung cancer.