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# CYP2C19\*5 Allele

National Cancer Institute

## Source

National Cancer Institute. *CYP2C19\*5 Allele*. NCI Thesaurus. Code C45609.

Human CYP2C19\*5 allele is located within 10q24.1-q24.3 and is approximately 90 kb in length. This allele, a variant form of the CYP2C19 wild-type allele, encodes cytochrome P450 2C19\*5 protein. The CYP2C19\*5 allele exhibits a clinically-relevant SNP (c.1297C>T) in exon 9 that results in a R433W coding change in the heme-binding region of the protein. This alteration in protein sequence abolishes the enzymatic activity of the cytochrome P450 2C19\*5 protein.