

CE

NMPA

FSC

CYP2C19 Genotyping Detection Kit (PCR-Fluorescence Probing)

DA089X

Features



LOD: 0.5 ng/μL



Multiple polymorphic sites

CYP2C19*2 (c. 681G > A), CYP2C19*3 (c. 636G > A), CYP2C19*17 (c. -806C > T)



Internal control to monitor the whole process



About CYP2C19

CYP2C19*2 (c. 681G > A) and CYP2C19*3 (c. 636G > A) polymorphisms result in the **decrease** of CYP2C19 enzyme activity and the capability to metabolize substrates.

CYP2C19*17 (c. -806C > T) polymorphism leads to the **increase** of the enzyme activity and the capability to metabolize substrates.

It is recommended that CYP2C19 gene polymorphism should be detected before patients use clopidogrel and other clinical drugs.

Application

- Guide the antiplatelet aggregation therapy drug clopidogrel.
- Guide the individualized use of other drugs mainly metabolized by CYP2C19 to improve the efficacy of drugs, reduce the occurrence of toxic side reactions or ineffective medications.

Parameters

Principle	Real-time fluorescent PCR technology
Specimen	Whole blood
Reaction system	20 μ L
Fluorescence channel and target gene	FAM: CYP2C19*2 (c. 681G>A)
	VIC: CYP2C19*3 (c. 636G>A)
	Texas Red: CYP2C19*17 (c. -806C>T)
	CY5: internal control
LOD	0.5 ng/ μ L
Detection range	0.5-50 ng/ μ L
Precision	CV \leq 5%
Cross-reactivity	No cross-reaction with CYP2C19 homologous genes and the DNA fragments containing the CYP2C19 alleles
Coincidence rate	CYP2C19*2 (c. 681G > A): 99.82%,
	CYP2C19*3 (c. 636G > A): 100%,
	CYP2C19*17 (c. 806C > T): 100%
Storage	-20 \pm 5 $^{\circ}$ C
Shelf life	9 months
Applicable instruments	ABI 7500, AGS4800
Certificates	CE, NMPA, FSC

Order Information

Product name	Cat. No	Specification
CYP2C19 Genotyping Detection Kit (PCR-Fluorescence Probing)	DA0890	Large package, 20 tests/kit
	DA0891	Large package, 48 tests/kit

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