



Recombinant Human Cytochrome P450 2C19 (CYP2C19)

Product Code	CSB-MP006417HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P33261
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	RGKLPPGPTPLPVIGNILQIDIKDVSLSLTNLSKIYGPVFTLYFGLERMVVLHGVE VVKEALIDLGEFSGRGRHFPLAERANRFGIVFSNGKRWKEIRRFSLMTRLNRF GMGKRSIEDRVQEEARCLVEELRRTKASPCDPTFILGCAPCNVICSIIIFQKRFD YKDQQFLNLMKLNENIRIVSTPWIQICNNFPTIIDYFPGTHNKLLKNLAFMESDI LEKVKEHQESMDINNPRDFIDCFLIKMEKEKQNNQSEFTIENLVITAADLLGAGT ETTSTTLRYALLLLKHPEVTAKVQEEIERVVGRNRSPCMQDRGHMPYTDVV HEVQRYIDLPTSLPHAVTCDVKFRNYLIPKGTILTSLTSVLHDNKEFPNPEMF DPRHFLDEGGNFKKSNYFMPFSAGKRICVGEGLARMELFLFTFILQNFNLKSL IDPKDLDTTPVNGFASVPPFYQLCFIPV
Source	Mammalian cell
Target Names	CYP2C19
Protein Names	Recommended name: Cytochrome P450 2C19 EC= 1.14.13.-Alternative name(s): (R)-limonene 6-monooxygenase EC= 1.14.13.80 (S)-limonene 6- monooxygenase EC= 1.14.13.48 (S)-limonene 7-monooxygenase EC= 1.14.13.49 C
Expression Region	26-490
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.