

Active Recombinant Cynomolgus CYP2C19 Protein

Cat. No. CYP2C19-126C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP2C19 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	Proton Pump inhibitors (PPIs) are commonly used for a variety of acid related disorders. Despite the overall effectiveness and safety profile of PPIs, some patients do not respond adequately or develop treatment related adverse events. This variable response among patients is in part due to genotype variability of CYP2C19, the gene encoding the CYP450 (CYP2C19) isoenzyme responsible for PPIs metabolism.
Bio-activity	<p>Cytochrome c Reductase Activity: 154 nmol/min/mg protein</p> <p>P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase])</p> <p>Activity: Tolbutamide 4-hydroxylase</p> <p>Linear with time up to: 30 min(Determined at 350 μM substrate, using a P450 concentration of 100 pmol/ml)</p> <p>Linear with P450 up to: 100 pmol/ml(Determined at 350 μM substrate, using an incubation time of 20 min)</p> <p>Vmax: 1.5 pmol/min/pmol CYP</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



	Km: 437 µM
Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 2.2 nmol/ml Protein Concentration: 12.3 mg/ml Specific P450 Content: 179 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2C19 cytochrome P450 family 2 subfamily C member 19 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CYP2C19
Synonyms	CYP2C19; cytochrome P450 family 2 subfamily C member 19; CYP2C75; cytochrome P450 2C9-like; cytochrome P450 family 2 subfamily C member 19; cytochrome P450 2C75; cytochrome P450, family 2, subfamily C, polypeptide 19
Gene ID	102147103
mRNA Refseq	NM_001283290
Protein Refseq	NP_001270219
UniProt ID	Q0HA19

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