



## Product Information Sheet

### Cynomolgus monkey CYP2C8LR (CYP2C20) Bactosomes

Catalogue Number: CYP330  
Product Description: Cynomolgus CYP2C8 and human CYP-reductase coexpressed in *Escherichia coli*  
Amount: 1 nmol cytochrome P450  
Storage Buffer: 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA  
Storage: Store at -80°C. Avoid frequent temperature changes. Thaw on ice.  
Intended Use: For laboratory (research) purposes only.

Batch Number: INT059E7  
P450 Concentration: 3.1 nmol/ml  
Protein Concentration: 8.3 mg/ml  
Specific P450 Content: 373 pmol/mg protein  
Cytochrome c Reductase Activity: 145 nmol/min/mg protein

#### <sup>1</sup>P450 Activity Data

Activity: Paclitaxel 6 $\alpha$ -hydroxylase  
<sup>2</sup>Linear with time up to: 25 min  
<sup>3</sup>Linear with P450 up to: 140 pmol/ml  
 $V_{max}$ : 0.12 pmol/min/pmol CYP  
 $K_m$ : 17  $\mu$ M

Approved by \_\_\_\_\_

Date 24<sup>th</sup> June 2020 \_\_\_\_\_

#### Notes:

<sup>1</sup>In naming this enzyme, we have followed the nomenclature proposed by Uno, Y *et al.* [*Drug Metab. Rev.* **43** (2011): 346-361]. Earlier publications may refer to this enzyme as CYP2C20.

<sup>2</sup>Unless otherwise stated, all assays are carried out at 37°C in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM isocitric acid, 5  $\mu$ M manganese chloride, 1 mM NADP<sup>+</sup>, 1 U/ml isocitrate dehydrogenase].

<sup>3</sup>Determined at 15  $\mu$ M substrate, using a P450 concentration of 125 pmol/ml.

<sup>4</sup>Determined at 15  $\mu$ M substrate, using an incubation time of 20 min.

#### Safety Data

The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

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