



Product Information Sheet

Cynomolgus monkey CYP2C19LR (CYP2C75) Bactosomes

Catalogue Number: CYP332
Product Description: Cynomolgus CYP2C19 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: INT059E3
P450 Concentration: 2.2 nmol/ml
Protein Concentration: 12.3 mg/ml
Specific P450 Content: 179 pmol/mg protein
Cytochrome c Reductase Activity: 154 nmol/min/mg protein

¹P450 Activity Data

Activity: Tolbutamide 4-hydroxylase

²Linear with time up to: 30 min

³Linear with P450 up to: 100 pmol/ml

V_{max}: 1.5 pmol/min/pmol CYP

K_m: 437 μM

Approved by 

Date 14th June, 2012

Notes:

¹In 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 CYP2C75.

²Unless otherwise stated, all assays are carried out at 37°C in 50 mM potassium phosphate buffer (pH 7.4) containing 9 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP⁺, 1 U/ml glucose 6-phosphate dehydrogenase].

³Determined at 350 μM substrate, using a P450 concentration of 100 pmol/ml.

⁴Determined at 350 μM 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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