



Product Information Sheet

Human CYP2C9BHR Bactosomes

Catalogue Number: CYP037
Product Description: Human CYP2C9 and human CYP-reductase coexpressed in *Escherichia coli*, supplemented with purified human cytochrome *b*₅
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: C2C9BHR024
P450 Concentration: 2.8 nmol/ml
Cytochrome *b*₅ Concentration: 13.7 nmol/ml
Protein Concentration: 10.2 mg/ml
Specific P450 Content: 275 pmol/mg protein
Cytochrome *c* Reductase Activity: 1190 nmol/min/mg protein

¹P450 Activity Data

Activity: Diclofenac 4'-hydroxylase
²Linear with time up to: 12 min
³Linear with P450 up to: 6 pmol/ml
*V*_{max}: 69 pmol/min/pmol CYP
*K*_m: 2.6 μM

Approved by _____

Date 18th December, 2007

Notes:

¹Unless 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 glucose 6-phosphate, 1 mM NADP⁺, 1 U/ml glucose 6-phosphate dehydrogenase].

²Determined at 2.5 μM substrate, using a P450 concentration of 3 pmol/ml.

³Determined at 2.5 μM substrate, using an incubation time of 5 min.

Safety Data

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

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047 Data Sheet for CYPxxxR Bactosomes Version 5 29AUG06