

PRODUCT INFORMATION SHEET

Rat CYP3A1BR Bactosomes

Catalogue Number: CYP376
Product Description: Rat CYP3A1 and rat CYP-reductase coexpressed in *Escherichia coli*, supplemented with purified rat cytochrome *b₅*
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: BINT073E1
CYP Concentration: 2.1 nmol/ml
Cytochrome *b₅* Concentration: 10.6 nmol/ml
Protein Concentration: 9.4 mg/ml
Specific CYP Content: 223 pmol/mg protein
Cytochrome c Reductase Activity: 1359 nmol/min/mg protein

¹CYP Activity Data

Activity measured: Testosterone 6 β -hydroxylase
²Linear with time up to: 20 min
³Linear with CYP up to: 100 pmol/ml
 V_{max} : 3.5 pmol/min/pmol CYP
 K_m : 100 μ M

Approved by _____ 

Date 19th April 2023

Notes

¹Unless otherwise stated, all assays are performed at 37°C in 100 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 60 μ M substrate, using a CYP concentration of 25 pmol/ml.

³Determined at 60 μ M 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. This product is being sold for research purposes only.